

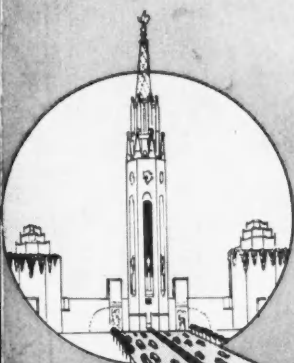
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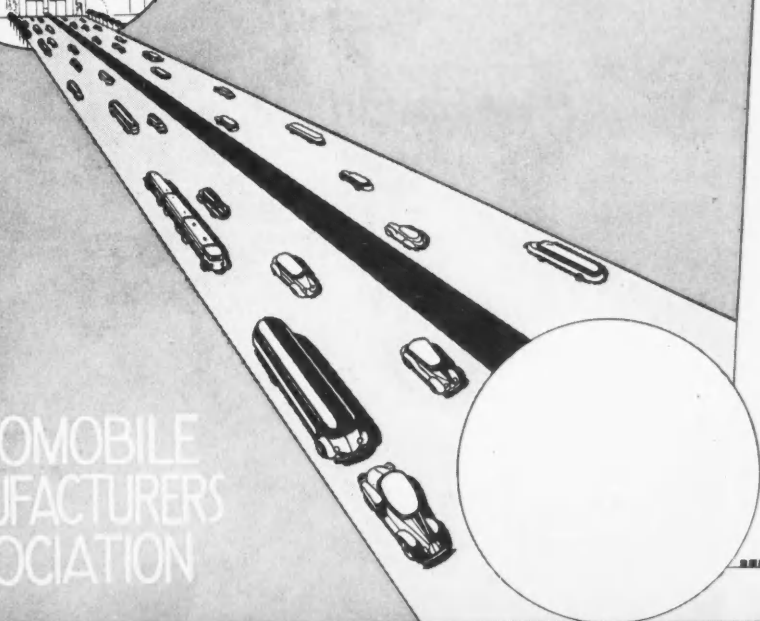
FACTS *and*
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21st
EDITION
1939



AUTOMOBILE
MANUFACTURERS
ASSOCIATION

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Automobile Facts and Figures

TWENTY-FIRST EDITION

(Figures for calendar year 1938)

THIS is the twenty-first consecutive issue of the annual statistical review of the automobile industry.

The replacement market proved to be the strongest support for sales in nineteen thirty-eight, in fact absorbing the entire output for domestic consumption.

Foreign sales took one out of every three American trucks and one out of every seven passenger cars produced in United States and Canada.

Although production and sales of motor vehicles declined below the previous year, the use of highway transport facilities continued near the peak of nineteen thirty-seven. This meant that employment in the transportation of persons and goods by motor vehicles was maintained at a high level.

Taxes of \$1,529,000,000 on motor vehicle users during the year receded slightly from the record established in nineteen thirty-seven but still represented one out of every eight tax dollars from all sources, Federal, state and local.

AUTOMOBILE MANUFACTURERS ASSOCIATION, INC.

366 Madison Avenue, at 46th Street, New York, N. Y.

DETROIT
GENERAL MOTORS BLDG.

WASHINGTON
TRANSPORTATION BLDG.

AUTOMOTIVE HISTORY
COLLECTION

Automobile Manufacturers Association, Inc.

366 MADISON AVE., AT 46TH ST., NEW YORK CITY, U. S. A.

Detroit, Mich.
General Motors Building

Washington, D. C.
Transportation Building

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First Vice President ALFRED P. SLOAN, JR. General Motors Corporation
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Manager, Statistical Department OSCAR P. PEARSON

(A list of members and committees is given on pages 89-92)

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1938

in the

Automobile Industry

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Factory Sales (United States and Canada) 2,655,171

Passenger cars, 2,124,746 Trucks 530,425

Wholesale Value, Motor Vehicles, Parts and Tires \$2,779,299,414

Cars (United States and Canada) \$1,331,598,129

Trucks (United States and Canada) . . . 358,652,285

Replacement parts, accessories, tires and service equipment (See page 15) . . . 1,089,049,000

Foreign Sales of American Motor Vehicles 492,028

Registration (United States) 29,485,680

Cars 25,261,649 Trucks 4,224,031

Capital Invested (net tangible assets) in Car and Truck Factories in U. S. \$1,300,652,000

Employment and Wages in U. S.

Number of wage earners in motor vehicle and parts factories 306,000

Wages in motor vehicle and parts factories \$455,000,000

Number employed directly and indirectly in highway transportation . . . 6,380,000

Number of Motor Vehicle Dealers in U. S. 41,700

Total Taxes on Motor Vehicle Owners \$1,529,312,125

Factory Sales and Wholesale Value

(United States and Canada shown from 1921 to date)

	PASSENGER CARS		MOTOR TRUCKS		TOTAL	
	Number	Value	Number†	Value‡	Number	Value
1900..	4,192	\$4,899,443	.....	.....	4,192	\$4,899,443
1901..	7,000	8,183,000	.....	.....	7,000	8,183,000
1902..	9,000	10,395,000	.....	.....	9,000	10,395,000
1903..	11,235	13,000,000	.....	.....	11,235	13,000,000
1904..	22,130	23,357,692	700	1,272,747	22,830	24,630,439
1905..	24,250	38,670,000	750	1,330,000	25,000	40,000,000
1906..	33,200	61,460,000	800	1,440,000	34,000	62,900,000
1907..	43,000	91,620,000	1,000	1,780,000	44,000	93,400,000
1908..	63,500	135,250,000	1,500	2,550,000	65,000	137,800,000
1909..	123,990	159,765,721	3,297	5,333,683	127,287	165,099,404
1910..	181,000	215,340,000	6,000	9,660,000	187,000	225,000,000
1911..	199,319	225,000,000	10,681	21,000,000	210,000	246,000,000
1912..	356,000	335,000,000	22,000	43,000,000	378,000	378,000,000
1913..	461,500	399,902,000	23,500	44,000,000	485,000	443,902,000
1914..	548,139	420,838,378	24,900	44,219,096	573,039	465,057,474
1915..	895,930	575,978,000	74,000	125,800,000	969,930	701,778,000
1916..	1,525,578	921,378,000	92,130	161,000,000	1,617,708	1,082,378,000
1917..	1,745,792	1,053,505,781	128,157	220,982,668	1,873,949	1,274,488,449
1918..	943,436	801,937,925	227,250	434,168,992	1,170,686	1,236,106,917
1919..	1,651,625	1,365,395,415	224,731	371,422,820	1,876,356	1,736,818,235
1920..	1,905,560	1,809,170,963	321,789	423,249,410	2,227,349	2,232,420,373
1921†	1,529,165	1,091,752,452	153,200	169,914,098	1,682,365	1,261,666,550
1922..	2,367,023	1,561,740,645	278,160	231,282,063	2,645,183	1,793,022,708
1923..	3,752,693	2,274,554,488	428,521	317,478,940	4,181,214	2,592,033,428
1924..	3,300,418	2,040,706,519	434,702	326,706,496	3,735,120	2,367,413,015
1925..	3,870,744	2,544,528,799	557,056	470,634,763	4,427,800	3,015,163,562
1926..	3,950,874	2,746,064,722	554,787	468,752,769	4,505,661	3,214,817,491
1927..	3,082,954	2,265,633,102	497,426	435,072,641	3,580,380	2,700,705,743
1928..	4,013,265	2,703,753,500	587,548	459,045,380	4,600,813	3,162,798,880
1929..	4,790,707	2,981,141,842	830,338	595,504,039	5,621,045	3,576,645,881
1930..	2,906,082	1,720,652,104	603,276	405,949,915	3,509,358	2,126,602,019
1931..	2,038,162	1,153,907,947	434,135	272,748,305	2,472,297	1,426,656,252
1932..	1,186,185	650,781,297	245,282	142,264,003	1,431,467	793,045,300
1933..	1,627,361	795,304,780	358,548	192,131,509	1,985,909	987,436,289
1934..	2,270,566	1,204,376,351	599,397	332,913,985	2,869,963	1,537,290,336
1935..	3,387,806	1,788,635,180	732,005	399,211,522	4,119,811	2,187,846,702
1936*	3,797,897	2,092,460,475	818,377	481,961,420	4,616,274	2,574,421,895
1937*	4,068,935	2,397,717,534	947,502	573,310,107	5,016,437	2,971,027,641
1938*	2,124,746	1,331,598,129	530,425	358,652,285	2,655,171	1,690,250,414

Foreign assemblies of parts made in U. S. but assembled abroad are included in this table.

† Figures for 1921 to date are "factory sales" for U. S. plants and "production" for Canadian plants.

See page 9 for Canadian production and wholesale value.

‡ A substantial part of the trucks reported comprises chassis only, without body; hence the value of bodies for these chassis is not included.

* Includes Federal excise taxes, also standard equipment in 1937 and 1938.

Annual Percentage Change in Factory Sales

Year	Passenger Cars	Motors Trucks	Total	Year	Passenger Cars	Motors Trucks	Total
1933..	37.2%	45.2%	33.7%	1936..	12.1%	11.8%	12.1%
1934..	35.5%	67.2%	44.5%	1937..	7.1%	15.8%	8.7%
1935..	49.1%	22.2%	43.6%	1938..	-47.7%	-44.0%	-47.2%

(—) means decrease; no sign in front of figures means increase.

Monthly Motor Vehicle Factory Sales

United States and Canada

(Figures from U. S. Census Bureau,* and Dominion Bureau of Statistics)

Passenger Car Factory Sales

Year	1932	1933	1934	1935	1936	1937	1938
Jan...	101,915	112,754	117,700	235,806	308,589	324,191	168,890
Feb...	98,604	93,153	193,875	287,142	234,872	310,961	151,133
Mar...	106,016	103,396	291,546	377,374	357,068	423,006	186,341
April...	126,597	156,712	303,806	407,721	436,576	452,907	190,111
May...	165,025	188,675	290,268	322,485	401,139	443,412	168,599
June...	166,646	213,602	272,090	306,300	388,183	429,333	147,545
July...	101,478	196,587	231,501	283,715	379,823	372,913	112,114
Aug...	79,073	196,333	190,825	186,133	212,140	317,270	61,687
Sept...	66,489	161,734	129,251	59,499	92,324	120,597	69,449
Oct...	37,468	107,593	86,128	220,113	194,690	306,040	192,906
Nov...	49,201	43,868	50,072	347,830	351,171	309,121	335,767
Dec...	87,673	52,954	113,504	353,688	441,322	259,184	340,204
Total	1,186,185	1,627,361	2,270,566	3,387,806	3,797,897	4,068,935	2,124,746

Motor Truck Factory Sales

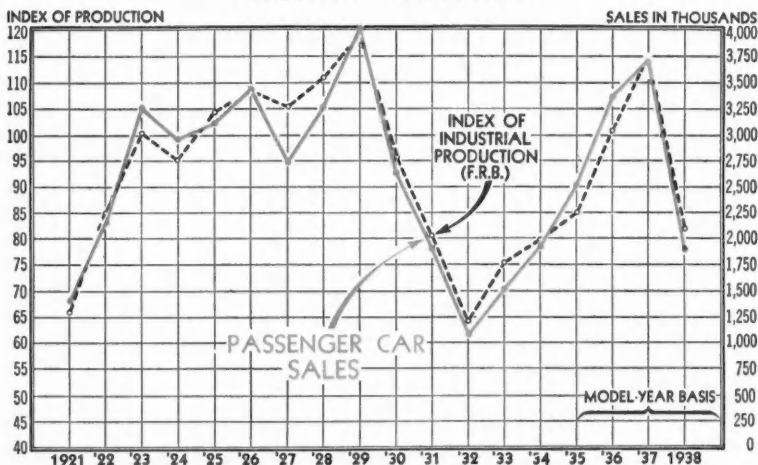
Year	1932	1933	1934	1935	1936	1937	1938
Jan...	21,160	19,429	44,870	64,529	68,655	74,995	58,062
Feb...	24,291	15,592	44,952	63,204	65,938	72,939	51,464
Mar...	21,261	18,508	61,068	70,520	81,875	96,016	52,106
April...	28,539	27,975	67,532	69,338	91,049	100,324	47,818
May...	27,491	35,132	60,348	59,324	79,379	96,965	41,575
June...	23,572	43,448	48,292	65,785	81,185	91,820	41,857
July...	15,137	39,310	44,546	61,582	71,383	83,996	38,336
Aug...	15,319	42,601	53,890	58,942	63,794	87,802	35,259
Sept...	20,003	35,874	46,335	33,229	47,496	55,033	20,174
Oct...	14,157	30,772	49,643	60,203	35,359	31,939	22,380
Nov...	12,560	19,106	35,107	60,720	54,628	67,508	54,638
Dec...	21,792	30,801	42,814	64,629	77,636	88,165	66,756
Total	245,282	358,548	599,397	732,005	818,377	947,502	530,425

Passenger Car and Truck Factory Sales

Year	1932	1933	1934	1935	1936	1937	1938
Jan...	123,075	132,183	162,570	300,335	377,244	399,186	226,952
Feb...	122,895	108,745	238,827	350,346	300,810	383,900	202,597
Mar...	127,277	121,904	352,614	447,894	438,943	519,022	238,447
Apr...	155,136	184,687	371,338	477,059	527,625	553,231	237,929
May...	192,516	223,807	350,616	381,809	480,518	540,377	210,174
June...	190,218	257,050	320,382	372,085	469,368	521,153	189,402
July...	116,615	235,897	276,047	345,297	451,206	456,909	150,450
Aug...	94,392	238,934	244,715	245,075	275,934	405,072	96,946
Sept...	86,492	197,608	175,586	92,728	139,820	175,630	89,623
Oct...	51,625	138,365	135,771	280,316	230,049	337,979	215,286
Nov...	61,761	62,974	85,179	408,550	405,799	376,629	390,405
Dec...	109,465	83,755	156,318	418,317	518,958	347,349	406,960
Total	1,431,467	1,985,909	2,869,963	4,119,811	4,616,274	5,016,437	2,655,171

*Includes overseas assemblies of motor vehicles of American make.

Retail Car Sales Fluctuate with General Industrial Production



Source: Retail sales of new passenger cars in United States compiled by Automobile Manufacturers Association since 1930. Prior to January 1930 estimates were made based on registrations of new passenger cars and factory sales to domestic market. Industrial Production Index: Federal Reserve Board.

U. S. Motor Vehicle Factory Sales to Domestic and Foreign Markets

"Domestic market" represents sales to distributors and dealers in the United States, and "foreign market" includes exports from U. S. factories plus number of vehicles assembled abroad from parts produced in U. S. plants. Canadian production is not included.

	PASSENGER CARS			MOTOR TRUCKS			TOTAL MOTOR VEHICLES		
	Total	Domestic Market	Foreign Market	Total	Domestic Market	Foreign Market	Total	Domestic Market	Foreign Market
1921...	1,468,067	1,417,017	51,050	148,052	135,483	12,569	1,616,119	1,552,500	63,619
1922...	2,274,185	2,169,185	105,000	269,991	247,593	22,398	2,544,176	2,416,778	127,398
1923...	3,624,717	3,449,658	175,059	409,295	349,077	60,218	4,034,012	3,798,735	235,277
1924...	3,185,881	2,968,711	217,170	416,659	340,555	76,104	3,602,540	3,309,266	293,274
1925...	3,735,171	3,419,072	316,099	530,659	418,064	112,595	4,265,830	3,837,136	428,694
1926...	3,783,987	3,494,791	289,196	516,947	413,080	103,867	4,300,934	3,907,871	393,063
1927...	2,936,533	2,604,491	332,042	464,793	330,455	134,338	3,401,326	2,934,946	466,380
1928...	3,815,417	3,396,516	418,901	543,342	379,530	163,812	4,358,759	3,776,046	582,713
1929...	4,587,400	4,136,305	451,095	771,020	488,353	282,667	5,358,420	4,624,658	733,762
1930...	2,784,745	2,536,981	247,764	571,241	413,290	157,951	3,355,986	2,950,271	405,715
1931...	1,973,090	1,838,786	134,304	416,648	309,029	107,619	2,389,738	2,147,815	241,923
1932...	1,135,491	1,062,376	73,115	235,187	187,837	47,350	1,370,678	1,250,213	120,465
1933...	1,573,512	1,475,357	98,155	346,545	268,117	78,428	1,920,057	1,743,474	176,583
1934...	2,177,919	1,993,763	184,156	575,192	448,826	126,366	2,753,111	2,442,589	310,522
1935...	3,252,244	3,041,877	210,367	694,690	570,216	124,474	3,946,934	3,612,093	334,841
1936...	3,669,528	3,458,051	211,477	784,587	649,997	134,590	4,454,115	4,108,048	346,067
1937...	3,915,889	3,643,386	272,503	893,085	689,674	203,411	4,808,974	4,333,060	475,914
1938...	2,000,985	1,810,829	190,156	488,100	352,314	135,786	2,489,085	2,163,143	325,942

Retail Sales of New Motor Vehicles in United States

Passenger Cars

	1930	1931	1932	1933	1934	1935	1936	1937	1938
January....	174,730	119,290	76,667	81,937	63,118	150,840	199,419	251,387	126,442
February....	215,151	138,762	80,420	72,004	116,902	196,320	178,375	218,381	120,254
March.....	304,059	206,715	86,860	86,732	195,117	299,761	338,729	411,589	188,325
April.....	364,114	280,154	128,463	130,399	232,118	333,319	393,435	390,744	193,392
May.....	347,721	247,427	139,634	168,512	216,177	285,401	397,290	410,348	187,526
June.....	281,292	204,500	157,148	193,180	237,171	295,703	389,215	367,456	156,029
July.....	227,931	183,748	90,525	178,121	214,558	261,717	340,308	349,387	153,426
August.....	205,627	152,398	95,564	182,595	184,824	236,415	266,783	312,451	123,711
September...	176,184	115,712	81,905	152,186	147,233	141,985	199,614	194,703	90,629
October.....	142,513	95,600	59,580	131,241	136,588	145,676	157,586	213,963	134,984
November...	97,702	72,390	45,412	95,542	106,971	265,090	295,857	213,702	241,009
December...	114,851	86,646	53,542	53,146	77,070	254,555	357,247	173,610	241,623
Year.....	2,651,875	1,903,342	1,095,720	1,525,595	1,927,847	2,866,782	3,513,858	3,507,781	1,957,350

Commercial Cars and Trucks

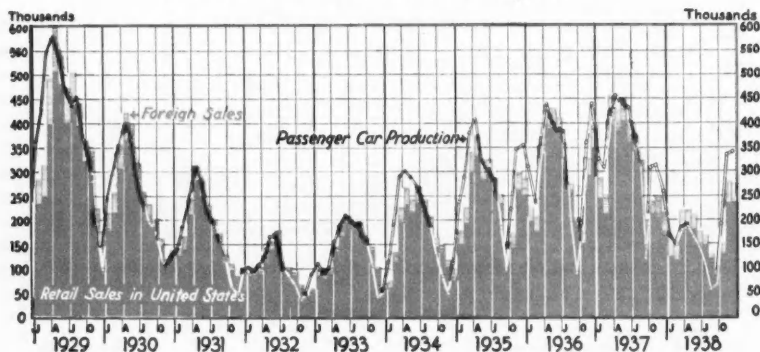
	1930	1931	1932	1933	1934	1935	1936	1937	1938
January....	28,506	22,635	12,925	12,336	27,015	41,058	46,274	48,086	32,391
February....	33,823	23,614	15,088	9,566	26,965	39,891	44,235	47,165	29,782
March.....	46,699	31,643	16,883	11,176	37,493	47,143	62,121	73,513	39,710
April.....	51,046	41,131	18,858	18,600	41,865	53,301	65,951	72,812	35,619
May.....	45,014	34,407	19,568	23,634	40,326	49,104	62,661	66,548	35,471
June.....	41,042	31,190	19,492	33,251	39,504	49,663	62,489	64,759	33,910
July.....	39,205	29,427	13,334	28,876	38,148	49,128	62,129	61,118	36,620
August.....	33,178	29,982	15,405	30,816	45,859	54,800	64,590	63,535	33,924
September...	39,168	27,892	17,906	29,558	38,448	40,460	56,569	53,407	25,776
October.....	33,958	25,247	18,155	27,536	39,889	39,255	33,444	31,617	17,327
November...	24,224	16,164	10,745	18,459	28,780	45,933	37,213	28,794	30,673
December...	23,465	14,602	11,051	17,276	26,453	42,510	51,498	33,574	36,178
Year.....	439,328	327,934	189,410	261,084	430,745	552,246	649,174	644,928	387,381

Total Cars and Trucks

	1930	1931	1932	1933	1934	1935	1936	1937	1938
January....	203,236	141,925	89,592	94,273	90,133	191,898	245,693	299,473	158,833
February....	248,974	162,376	95,508	81,570	143,867	236,211	222,610	265,546	150,036
March.....	350,758	238,358	103,743	97,908	232,610	346,904	400,850	485,102	228,035
April.....	415,160	321,285	147,321	148,999	273,983	386,620	459,386	463,556	229,011
May.....	392,735	281,834	159,202	192,146	256,503	334,505	459,951	476,896	222,997
June.....	322,334	235,690	176,640	226,431	276,675	345,366	451,704	432,215	189,939
July.....	267,136	213,175	103,859	206,997	252,706	310,845	402,437	410,505	190,046
August.....	238,805	182,380	110,969	213,411	230,683	291,215	331,373	375,986	157,635
September...	215,352	143,604	99,811	181,744	185,681	182,445	256,183	248,110	116,405
October.....	176,471	120,847	77,735	158,777	176,477	184,931	191,030	245,580	152,311
November...	121,926	88,554	56,157	114,001	135,751	311,023	333,070	242,556	271,682
December...	138,316	101,248	64,593	70,422	103,523	297,065	408,745	207,184	277,801
Year.....	3,091,203	2,231,276	1,285,130	1,786,679	2,358,592	3,419,028	4,163,032	4,152,709	2,344,731

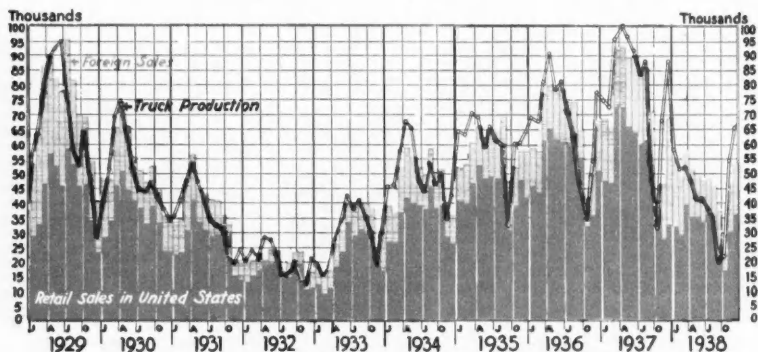
Note—Passenger car figures include taxicabs; truck figures include buses, station wagons, funeral cars and special purpose vehicles.

Passenger Car Output Compared with Retail Sales and Exports



The passenger car production curve represents the combined factory sales from plants located in the United States and the production of plants located in Canada. The solid portions of the vertical bars represent monthly retail sales in the United States, and the cross-hatched, top portion of the bars shows sales of American cars in foreign markets, including U. S. exports, foreign assemblies of parts produced in U. S., and Canadian production.

Truck Output Compared with Sales



The truck production curve includes factory sales from plants located in the United States, production of plants located in Canada and assemblies abroad of parts produced in the United States. The cross-hatched portion of the vertical bars represents U. S. exports, foreign assemblies of parts produced in U. S., and Canadian production.

Canadian Automobile Industry

(Figures from Annual Report of Dominion Bureau of Statistics, Ottawa, Canada)

Number and Wholesale Value of Canadian Production

Year	PASSENGER CARS		TRUCKS		TOTAL	
	Number	Value	Number	Value	Number	Value
1921...	61,098	\$53,561,415	5,148	\$3,843,288	66,246	\$57,404,703
1922...	92,838	67,226,654	8,169	5,232,405	101,007	72,459,059
1923...	127,976	78,282,372	19,226	8,941,011	147,202	87,223,383
1924...	114,537	70,609,960	18,043	8,125,916	132,580	78,735,876
1925...	135,573	86,158,773	26,397	12,234,486	161,970	98,393,259
1926...	166,887	106,000,203	37,840	16,629,334	204,727	122,629,537
1927...	146,421	100,962,211	32,633	14,942,017	179,054	115,904,228
1928...	197,848	127,263,877	44,206	21,913,122	242,054	149,176,999
1929...	203,307	134,023,280	59,318	29,474,395	262,625	163,497,675
1930...	121,337	75,253,581	32,035	16,513,225	153,372	91,766,806
1931...	65,072	42,634,173	17,487	10,330,763	82,559	52,964,936
1932...	50,694	32,490,129	10,095	6,070,667	60,789	38,560,796
1933...	53,849	32,568,268	12,003	6,062,195	65,852	38,630,463
1934...	92,647	57,260,156	24,205	12,770,318	116,852	70,030,474
1935...	135,562	79,209,276	37,315	19,803,771	172,877	99,013,047
1936...	128,369	76,814,258	33,790	19,140,946	162,159	95,955,204
1937...	153,046	93,368,282	54,417	30,389,011	207,463	123,757,293
1938...	123,761	81,661,687	42,325	26,497,038	166,086	108,158,725

Motor Vehicle Manufacturing Industry

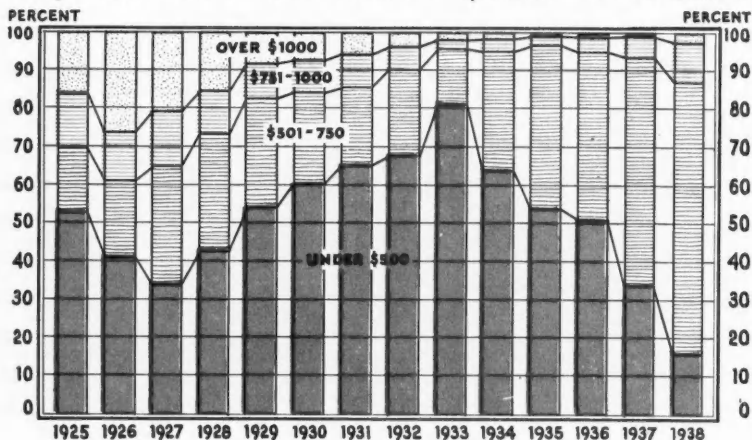
Year	Number of Plants	Capital Employed	Average No. of Employees	Salaries and Wages	Exports Cars and Trucks Number	Imports Cars and Trucks Number
1928.....	14	\$97,056,328	16,749	\$29,548,114	79,388	47,408
1929.....	17	98,378,301	16,435	26,864,808	101,711	44,724
1930.....	16	90,671,678	12,541	19,473,782	44,553	23,233
1931.....	26	59,638,057	9,545	13,113,192	13,813	8,738
1932.....	25	49,641,777	8,810	11,435,741	12,534	1,449
1933.....	22	40,000,559	8,134	8,557,331	20,403	1,781
1934.....	21	34,520,938	9,674	12,938,933	43,368	2,905
1935.....	20	40,765,548	13,095	18,797,599	64,330	4,111
1936.....	16	46,497,259	12,933	18,164,042	55,570	9,903
1937.....	15	57,996,242	14,946	22,138,991	65,867	20,069
1938.....	12	59,798,250	14,872	20,993,362	57,909	15,154

Automobile Parts and Accessories Industry

Year	Number of Plants	Capital Employed	Average No. of Employees	Salaries and Wages	Wholesale Value of Products	Value of Exports	Value of Imports*
1928...	77	\$16,343,956	3,509	\$4,756,409	\$17,007,157	\$2,152,166	\$48,839,955
1929...	65	19,401,890	4,708	6,711,434	31,965,078	2,350,232	44,772,091
1930...	57	16,654,683	3,580	4,527,179	18,401,587	1,587,571	23,358,763
1931...	73	15,617,986	2,899	3,429,841	12,600,256	829,838	14,442,570
1932...	76	17,332,257	3,832	3,874,618	12,161,456	1,846,033	11,588,190
1933...	83	16,975,182	3,776	3,569,483	13,001,185	1,337,302	10,836,590
1934...	80	19,393,687	5,172	5,498,360	24,378,762	2,415,222	19,474,767
1935...	82	23,260,333	6,614	7,411,434	32,684,252	2,925,667	24,517,832
1936...	85	24,730,610	6,842	7,776,726	33,378,508	2,899,946	24,044,191
1937...	88	28,440,176	8,416	10,358,098	46,631,643	2,919,981	32,774,858
1938...	Not available at time of going to press					2,679,265	24,694,191

*Does not include automobile engines

87% of Cars Sell Under \$750 Wholesale



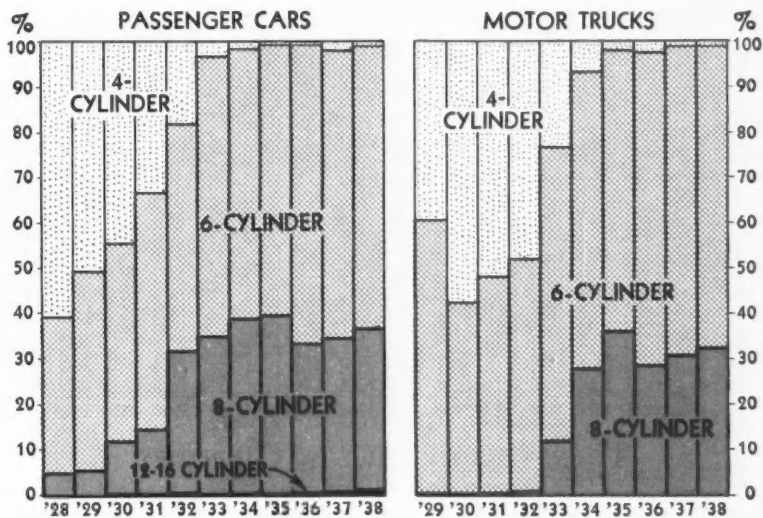
Factory Sales by Wholesale Price Classes

United States and Canada

	Under \$500	\$501- 750	\$751- 1000	\$1001- 1500	\$1501- 2000	\$2001- 3000	Over \$3000	Total
1926.....	1,633,775	1,149,301	500,508	476,675	94,915	73,738	19,931	3,948,843
Percent.....	41.4	29.1	12.7	12.1	2.4	1.8	.5	100%
1927.....	1,039,216	957,987	446,663	466,902	107,425	50,064	15,103	3,083,360
Percent.....	33.7	31.1	14.5	15.2	3.5	1.6	.4	100%
1928.....	1,698,603	1,219,266	462,452	456,117	108,448	55,304	11,968	4,012,158
Percent.....	42.3	30.4	11.5	11.4	2.7	1.4	.3	100%
1929.....	2,585,414	1,317,116	387,835	347,340	98,086	47,587	11,520	4,794,898
Percent.....	53.9	27.5	8.1	7.3	2.0	1.0	.2	100%
1930.....	1,754,747	680,352	204,450	179,180	55,351	27,266	8,841	2,910,187
Percent.....	60.3	23.4	7.1	6.2	1.9	.9	.2	100%
1931.....	1,328,294	413,929	162,954	80,687	33,846	12,714	5,759	2,038,183
Percent.....	65.2	20.3	8.0	3.9	1.7	.6	.3	100%
1932.....	794,164	260,831	74,610	36,670	8,699	8,679	2,532	1,186,185
Percent.....	67.0	22.0	6.3	3.1	.7	.7	.2	100%
1933.....	1,316,341	237,099	32,610	20,125	10,409	8,725	2,052	1,627,361
Percent.....	80.9	14.6	2.0	1.25	.65	.5	.1	100%
1934.....	1,443,357	715,989	66,223	27,576	8,391	6,879	2,151	2,270,566
Percent.....	63.5	31.6	2.9	1.2	.4	.3	.1	100%
1935.....	1,787,171	1,444,529	110,813	28,736	8,716	5,413	2,428	3,387,806
Percent.....	52.7	42.6	3.3	.9	.27	.16	.07	100%
1936.....	1,919,618	1,677,558	143,269	39,997	11,545	4,326	1,584	3,797,897
Percent.....	50.6	44.2	3.7	1.05	.30	.11	.04	100%
1937.....	1,368,018	2,392,415	260,280	31,226	11,633	4,061	1,302	4,068,935
Percent.....	33.6	58.8	6.4	.8	.28	.09	.03	100%
1938.....	329,858	1,521,404	224,839	42,160	3,661	2,161	663	2,124,746
Percent.....	15.5	71.6	10.6	2.0	.17	.10	.03	100%

Factory Sales by Cylinders

U. S. and Canada

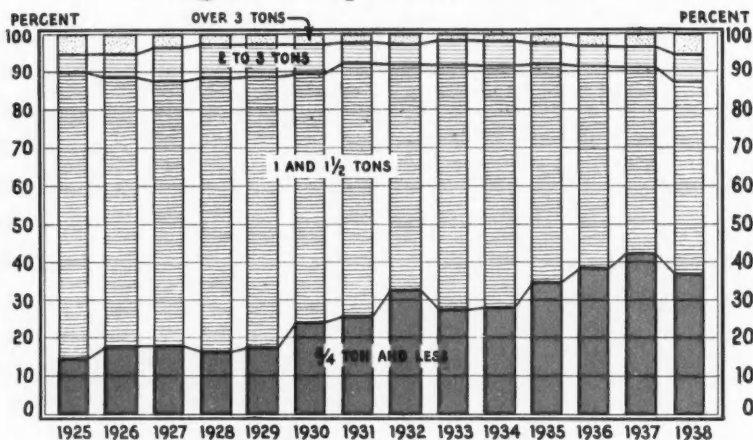


PASSENGER CARS

MOTOR TRUCKS

	4 cyl.	6 cyl.	8 cyl.	12 and 16 cyl.	Total	4 cyl.	6 cyl.	8 cyl.	Total
1928.....	50.7%	45.0%	4.3%	0%	100%	No data available			
1929.....	40.7	54.3	5.0	0	100%	39.6%	60.2%	.2%	100%
1930.....	44.5	43.6	11.8	.1	100%	57.8	42.1	.1	100%
1931.....	33.3	52.0	14.5	.2	100%	51.9	47.9	.2	100%
1932.....	17.9	50.4	31.1	.6	100%	48.2	51.1	.7	100%
1933.....	3.2	61.8	34.7	.3	100%	22.8	65.8	11.4	100%
1934.....	1.2	59.8	38.8	.2	100%	6.3	65.6	28.1	100%
1935.....	0.5	59.9	39.4	.2	100%	1.3	62.9	35.8	100%
1936.....	0.5	66.5	32.4	.6	100%	1.7	69.6	28.7	100%
1937.....	1.7	63.8	33.7	.8	100%	0.8	68.5	30.7	100%
1938.....	0.8	62.8	35.4	1.0	100%	0.9	67.0	32.1	100%

Trucks of 1½ Ton Capacity Comprise Largest Proportion of Total



Truck Factory Sales by Capacities

UNITED STATES AND CANADA

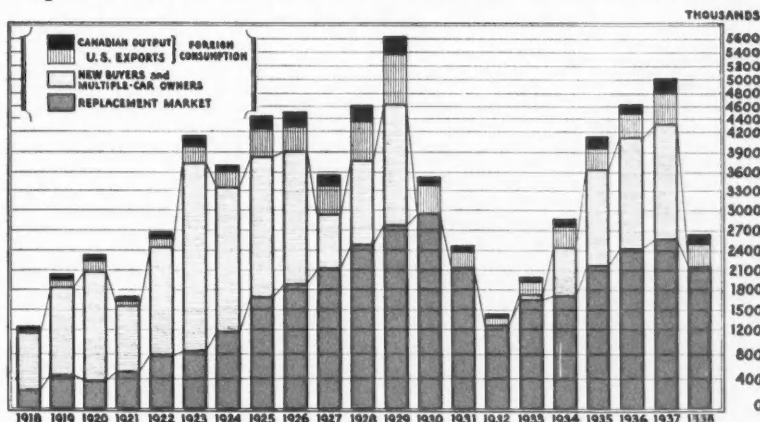
	1932	1933	1934	1935	1936	1937	1938
¾ ton or less.....	79,127	99,028	172,089	249,957	316,208	395,157	194,827
1 ton and less than 1½	1,618	893	2,341	2,259	9,686	21,580	30,951
1½ ton and less than 2	144,113	228,238	376,475	420,597	423,503	441,156	246,200
2 ton and less than 2½	7,620	15,866	25,995	28,950	30,637	30,431	18,375
2½ ton, less than 3½	6,006	7,728	11,136	10,465	12,309	18,971	9,954
3½ ton and less than 5	2,689	2,859	4,752	3,612	4,621	6,170	4,539
5 ton and over.....	2,202	1,331	2,869	3,824	5,567	9,248	5,820
Special types¹.....	1,910	2,605	3,740	*12,341	*15,846	*24,789	*19,759
Total.....	245,285	358,548	599,397	732,005	818,377	947,502	530,425

Truck Factory Sales by Capacities—Per Cent

	1932	1933	1934	1935	1936	1937	1938
¾ ton or less.....	32.3	27.6	28.6	34.1	38.6	41.7	36.7
1 ton and less than 1½	.6	.2	.4	.3	1.1	2.3	5.8
1½ ton and less than 2	58.8	63.7	62.9	57.5	52.0	46.6	46.4
2 ton and less than 2½	3.1	4.4	4.3	4.0	3.7	3.2	3.5
2½ ton and less than 3½	2.4	2.2	1.9	1.4	1.5	2.0	1.9
3½ ton and less than 5	1.1	.8	.8	.5	.5	.6	.9
5 ton and over.....	.9	.4	.5	.5	.7	1.0	1.1
Special types¹.....	.8	.7	.6	*1.7	*1.9	*2.6	3.7
Total.....	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

* Including station wagons. ¹—Includes buses, fire apparatus, street sweepers and other special purpose vehicles which have been built by motor vehicle manufacturers specifically for the purpose, but excludes those vehicles converted into these types after having been shipped from the factory.

Replacement Market Takes All of New Cars Sold in U.S.



Automobile Markets

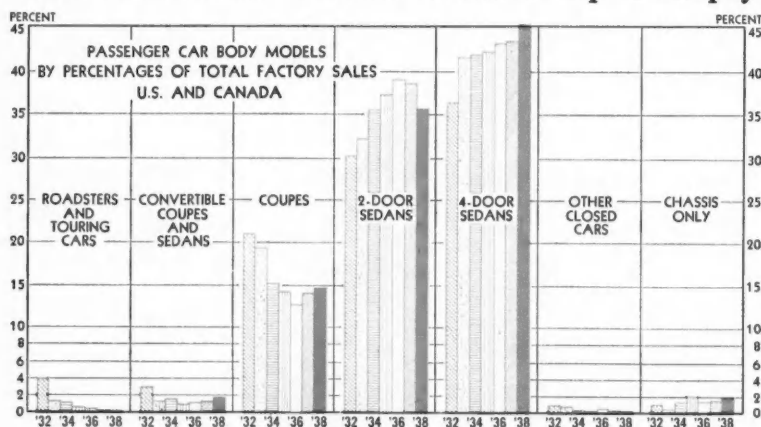
(Figures include all Motor Vehicles)

Year	Factory Sales U. S. and Canada	FOREIGN MARKET			DOMESTIC MARKET		
		Canadian Output	U. S. Exports	Total Foreign	New Owners and Others*	Replacements†	Total Domestic
1921..	1,682,365	66,246	63,619	129,865	1,069,771	482,829	1,552,500
1922..	2,646,229	101,007	130,899	231,906	1,619,367	794,956	2,414,323
1923..	4,180,450	147,202	235,183	382,385	2,920,922	877,143	3,798,065
1924..	3,737,786	132,580	293,149	425,729	2,160,676	1,151,381	3,312,057
1925..	4,427,800	161,970	428,687	590,657	2,166,806	1,670,337	3,837,143
1926..	4,505,661	204,727	393,444	598,171	2,083,260	1,824,230	3,907,490
1927..	3,580,380	179,054	469,468	648,522	821,644	2,110,214	2,931,858
1928..	4,601,141	242,054	582,764	824,818	1,259,455	2,516,868	3,776,323
1929..	5,621,715	262,625	734,211	996,836	1,792,978	2,831,901	4,624,879
1930..	3,510,178	153,372	405,715	559,087	0	2,951,091	2,951,091
1931..	2,472,359	82,559	241,557	324,116	0	2,148,243	2,148,243
1932..	1,431,467	60,789	120,239	181,028	0	1,250,439	1,250,439
1933..	1,985,909	65,852	176,583	242,435	89,105	1,654,369	1,743,474
1934..	2,869,963	116,852	310,522	427,374	730,301	1,712,288	2,442,589
1935..	4,119,811	172,877	334,841	507,718	1,428,012	2,184,081	3,612,093
1936..	4,616,274	162,159	346,067	508,226	1,689,150	2,418,898	4,108,048
1937..	5,016,437	207,463	475,914	683,377	1,744,456	2,588,604	4,333,060
1938..	2,655,171	166,086	325,942	492,028	0	2,163,143	2,163,143

*Number of new motor vehicles sold in excess of number of old vehicles estimated as having been (a) scrapped or (b) kept without being re-registered.

†Represents old vehicles estimated as having been scrapped or unregistered. The estimate of replacements was made by (1) adding retail sales of new vehicles during a year to the total registrations at the end of the preceding year; (2) subtracting total registrations at the end of the current year; (3) adding half this difference, obtained in (2), and half the corresponding difference resulting from a similar computation for the preceding year, which gives the estimated total scrapped or unregistered in the preceding year; (4) all scrapped or unregistered old vehicles during the year are assumed to be equivalent to the replacement market for new vehicles. In years 1930 to 1932, and 1938, computed cars scrapped or unregistered exceeded number of new cars sold in the domestic market, hence replacements are assumed to have absorbed all sales in the domestic market.

Trend Toward 4-Door Sedans Up Sharply



Passenger Car Factory Sales by Body Types United States and Canada

	1936		1937		1938	
	Number	Percent	Number	Percent	Number	Percent
Roadster	7,778	.24	1,134	.03	591	.03
Touring	4,949	.13	3,743	.09	1,260	.06
Convertible Coupe	38,139	1.00	45,052	1.11	30,017	1.42
Convertible Sedan	12,887	.33	14,341	.35	7,765	.37
Coupe	488,810	12.87	578,327	14.21	314,675	14.81
2-Door Sedan	1,509,654	39.75	1,562,014	38.89	759,135	35.72
4-Door Sedan	1,662,125	43.76	1,787,457	43.93	964,462	45.39
All other closed cars	13,981	.36	11,500	.28	4,480	.21
Chassis	59,574	1.56	65,367	1.61	42,361	1.99
Total	3,797,897	100%	4,068,935	100%	2,124,746	100.00

1938 Parts, Accessories Sales Decrease 25% Under 1937

(Estimates based on Federal Excise Tax Receipts)

	Wholesale Value		Wholesale Value
1933	\$227,183,250	1936	\$446,053,700
1934	299,576,750	1937	474,559,246
1935	359,146,550	1938	354,365,550

Note: For year to year comparisons, probably the most comprehensive and accurate measure of the trend in the domestic market sales of repair parts and accessories is obtainable from the Federal excise tax collections. The wholesale value of parts and accessories taxable has been estimated by dividing the tax rate of 2% into the aggregate annual collections for years ending January 31st.

The Federal excise tax does not apply on parts and accessories exported, direct sales to governments, sales of garage and service equipment and items which are used for a variety of purposes other than automotive, such as bolts, nuts, lacquers, paints, varnish, cloth, leather, etc. used in repairs.

1938 Replacement Parts, Accessories, Tires

(Parts figures from Motor and Equipment Manufacturers Association)

	Wholesale Value
Replacement parts and accessories	\$506,645,000
Parts sold by motor vehicle manufacturers	258,842,000
Repair shop equipment	50,572,000
Replacement rubber tires, tubes and repair materials.	272,990,000

Total after-market sales \$1,089,049,000

Wholesale Sales Value of Automobile Tire Shipments

	Pneumatic Casings	Inner Tubes	Solids and Cushions	Auto Tire Sundries and Fabrics	Total
1929	\$592,172,000	\$84,623,000	\$17,554,000	\$28,056,000	\$722,405,000
1930	439,095,000	63,364,000	9,535,000	20,288,000	532,282,000
1931	340,979,000	49,876,000	5,520,000	15,191,000	411,566,000
1932	251,447,000	31,884,000	3,270,000	10,955,000	297,556,000
1933	256,192,000	35,271,000	2,903,000	12,389,000	306,755,000
1934	269,957,000	36,804,000	1,941,000	15,680,000	324,382,000
1935	324,937,000	44,715,000	1,502,000	16,321,000	387,475,000
1936	368,353,000	50,524,000	1,386,000	15,053,000	435,316,000
1937	419,689,000	54,335,000	981,000	17,765,000	492,770,000
1938	328,865,000	44,400,000	514,000	16,201,000	389,980,000

The above figures representing 100% of the tire industry are estimates made by the Automobile Manufacturers Association based on actual reports to The Rubber Manufacturers Association, Inc. from companies representing 98% of the industry's sales for 1929 to 1934, 87% for 1935 and 80% for 1936 to 1938.

Rubber Tire Shipments

(Figures estimated by The Rubber Manufacturers Association, Inc.)

	Number of Units			
	1935	1936	1937	1938
High Pressure Casings	4,014,650	4,270,840	3,743,977	2,539,804
Balloon Casings	46,168,479	49,114,659	49,741,411	39,790,268
Solids and Cushions*	283,337	439,880	594,721	373,815
Inner Tubes	48,067,906	54,422,755	52,766,728	40,292,614

*Includes Industrial truck, tractor and trailer tires.

Capital Invested in Automobile Manufacturing*

Year	Cars	Trucks	Total
1925	\$1,503,290,062	\$384,738,748	\$1,888,028,810
1926	1,646,589,759	442,908,566	2,089,498,325
1927	1,643,989,116	436,668,548	2,080,657,664
1928	1,578,021,207	387,289,301	1,965,310,508
1929	1,518,714,814	437,972,847	1,956,687,661
1930	1,442,275,653	438,532,580	1,880,808,233
1931	1,215,200,000	380,600,000	1,595,800,000
1932	1,118,600,000	371,300,000	1,489,900,000
1933	1,012,548,000	336,418,000	1,348,966,000
1934	955,599,000	322,918,000	1,278,517,000
1935	969,265,000	304,469,000	1,273,734,000
1936	1,004,766,000	338,435,000	1,343,201,000
1937	1,003,869,000	365,762,000	1,369,631,000
1938	928,208,000	372,444,000	1,300,652,000

*The above figures represent net tangible assets of motor vehicle manufacturing plants located in United States, and do not include parts, accessory, body and tire manufacturers.

Motor Vehicle Registrations, 1895-1938

(Figures as of December 31st)

Years	PASSENGER CARS		MOTOR TRUCKS		TOTAL MOTOR VEHICLES	
	Number	% In-crease	Number	% In-crease	Number	% In-crease
1895.....	4	....	.....	....	4	....
1896.....	16	....	.....	....	16	....
1897.....	90	....	.....	....	90	....
1898.....	800	....	.....	....	800	....
1899.....	3,200	....	.....	....	3,200	....
1900.....	8,000	....	.....	....	8,000	....
1901.....	14,800	85%	.....	....	14,800	85%
1902.....	23,000	55%	.....	....	23,000	55%
1903.....	32,920	43%	.....	....	32,920	43%
1904.....	54,590	66%	700	....	55,290	68%
1905.....	77,400	42%	1,400	100%	78,800	43%
1906.....	105,900	37%	2,200	57%	108,100	37%
1907.....	140,300	33%	2,900	32%	143,200	32%
1908.....	194,400	38%	4,000	38%	198,400	38%
1909.....	305,950	57%	6,050	51%	312,000	57%
1910.....	458,500	50%	10,000	65%	468,500	50%
1911.....	619,500	35%	20,000	100%	639,500	36%
1912.....	902,600	46%	41,400	107%	944,000	48%
1913.....	1,194,262	32%	63,800	54%	1,258,062	33%
1914.....	1,625,739	36%	85,600	34%	1,711,339	36%
1915.....	2,309,666	42%	136,000	59%	2,445,666	43%
1916.....	3,297,996	43%	215,000	58%	3,512,996	44%
1917.....	4,657,340	42%	326,000	52%	4,983,340	42%
1918.....	5,621,617	21%	525,000	61%	6,146,617	23%
1919.....	6,771,074	21%	794,372	51%	7,565,446	23%
1920.....	8,225,859	22%	1,006,082	27%	9,231,941	22%
1921.....	9,346,195	14%	1,117,100	11%	10,463,295	13%
1922.....	10,862,650	16%	1,375,725	23%	12,238,375	17%
1923.....	13,479,608	24%	1,612,569	17%	15,092,177	23%
1924.....	15,460,649	15%	2,134,724	32%	17,595,373	17%
1925.....	17,496,420	13%	2,440,854	14%	19,937,274	13%
1926.....	19,237,171	10%	2,764,222	13%	22,001,393	10%
1927.....	20,219,224	5%	2,914,019	5%	23,133,243	5%
1928.....	21,379,125	6%	3,113,999	7%	24,493,124	6%
1929.....	23,121,589	8%	3,379,854	8%	26,501,443	8%
1930.....	23,059,262	-1%	3,486,019	3%	26,545,281	16%
1931.....	22,366,313	-3%	3,466,571	-6%	25,832,884	-2.5%
1932.....	20,885,814	-6.6%	3,229,315	-7%	24,115,129	-6.7%
1933.....	20,643,564	-1.2%	3,230,668	.04%	23,874,232	-1.0%
1934.....	21,532,408	4.4%	3,419,254	5.9%	24,951,662	4.6%
1935.....	22,562,847	4.9%	3,664,429	7.2%	26,227,276	5.1%
1936.....	24,178,211	7.1%	3,987,339	8.9%	28,165,550	7.3%
1937.....	25,449,924	5.4%	4,255,296	6.9%	29,705,220	5.5%
1938.....	25,261,649	-0.7%	4,224,031	-0.7%	29,485,680	-0.7%

Tax-Exempt Official Cars Not Included in the Above Registrations¹

Year	U. S. Cars† State and Local			Total	Year	U. S. Cars† State and Local			Total
1931..	29,154	143,096		172,250	1935..	*94,503	189,454		283,957
1932..	36,475	143,666		180,141	1936..	*99,038	200,230		299,268
1933..	36,475	177,370		213,845	1937..	104,792	231,280		336,072
1934..	*79,996	191,512		271,508	1938..	109,761	257,469		367,230

¹—Some states require government-owned vehicles to pay registration fees same as privately-owned vehicles. In such states the government-owned vehicles are included among the regular registrations in above table. *Source: Procurement Division, U. S. Treasury Department. †U. S. Budget Bureau figures.

Total Motor Vehicle Registrations by States—1933-1938

(Figures from U. S. Bureau of Public Roads as of December 31st)

STATES	1933	1934	1935	1936	1937	1938
Alabama.....	206,361	225,732	242,676	297,292	313,359	301,990
Arizona.....	89,496	96,586	103,122	115,035	129,210	128,791
Arkansas.....	188,242	198,091	207,429	217,227	229,867	220,391
California.....	1,971,929	2,006,255	2,151,501	2,327,984	2,484,653	2,510,867
Colorado.....	266,491	274,231	284,578	316,050	337,217	332,774
Connecticut....	340,530	351,846	366,827	403,263	436,564	440,335
Delaware.....	51,099	54,240	56,560	59,629	63,599	64,078
Dist. of Columbia	149,790	163,070	171,464	181,319	184,119	162,863
Florida.....	279,265	335,205	356,244	386,907	418,145	423,021
Georgia.....	330,147	376,993	394,096	410,583	441,847	432,360
Idaho.....	96,255	108,863	118,266	133,037	142,110	137,851
Illinois.....	1,463,050	1,456,241	1,525,817	1,659,750	1,768,946	1,780,865
Indiana.....	770,071	803,271	850,650	905,088	956,016	922,788
Iowa.....	632,292	666,440	699,016	728,414	745,602	740,021
Kansas.....	517,987	528,664	553,106	577,906	586,685	573,985
Kentucky.....	294,547	332,067	346,130	372,576	404,455	414,207
Louisiana.....	232,688	244,007	268,824	302,420	323,498	326,199
Maine.....	168,173	178,995	181,165	191,554	200,907	196,690
Maryland.....	313,274	332,892	345,578	378,462	387,410	395,347
Massachusetts..	789,788	785,392	785,572	816,711	846,556	843,789
Michigan.....	1,077,209	1,148,953	1,239,431	1,373,676	1,505,111	1,408,835
Minnesota.....	679,243	697,672	726,993	783,627	822,598	821,241
Mississippi.....	164,688	174,934	186,289	205,890	226,286	215,195
Missouri.....	698,362	739,813	766,369	809,615	835,895	837,118
Montana.....	110,245	128,336	149,712	167,150	173,892	171,326
Nebraska.....	390,651	406,632	406,178	413,787	412,726	407,330
Nevada.....	28,324	32,230	34,858	38,509	40,655	38,424
New Hampshire..	107,631	113,134	117,154	122,236	125,939	124,379
New Jersey.....	845,734	864,641	888,292	943,412	994,497	1,000,684
New Mexico....	76,643	82,900	92,457	108,729	118,106	116,537
New York.....	2,245,619	2,273,686	2,330,962	2,453,542	2,561,703	2,584,123
North Carolina..	382,308	432,421	463,123	504,517	525,350	537,242
North Dakota...	153,889	156,203	164,217	167,241	173,188	174,256
Ohio.....	1,554,314	1,613,265	1,714,627	1,777,048	1,876,132	1,870,249
Oklahoma.....	451,712	477,292	502,101	531,914	547,263	535,399
Oregon.....	239,410	272,102	293,554	332,729	360,348	357,321
Pennsylvania...	1,635,019	1,681,202	1,745,401	1,857,366	1,984,821	1,976,466
Rhode Island...	136,261	142,394	148,597	159,140	167,586	168,888
South Carolina..	162,735	202,834	235,919	278,829	296,224	287,913
South Dakota...	169,249	169,975	179,271	186,480	184,743	180,632
Tennessee.....	312,180	336,313	351,898	380,792	400,384	398,624
Texas.....	1,201,762	1,312,152	1,382,104	1,478,124	1,552,114	1,548,343
Utah.....	100,362	101,926	106,006	116,816	126,692	127,004
Vermont.....	73,576	77,921	81,513	84,155	88,958	87,402
Virginia.....	347,883	373,908	385,555	417,463	440,713	441,462
Washington....	427,406	422,238	453,660	499,760	535,483	523,328
West Virginia...	226,985	223,155	248,379	280,015	290,837	275,691
Wisconsin.....	670,797	709,359	754,037	835,178	854,374	840,291
Wyoming.....	52,560	64,990	69,998	76,603	81,837	80,765
Totals....	23,874,232	24,951,662	26,227,276	28,165,550	29,705,220	29,485,680

Passenger Car

Registrations by States—1933-1938

(Figures from U. S. Bureau of Public Roads as of December 31st)

STATES	1933	1934	1935	1936	1937	1938
Alabama.....	176,523	191,631	203,687	246,557	257,248	250,074
Arizona.....	74,927	79,795	85,158	94,852	106,237	105,793
Arkansas.....	155,262	162,391	167,322	169,389	173,923	167,045
California.....	1,751,842	1,768,699	*1,897,593	*2,060,533	*2,189,378	*2,213,152
Colorado.....	239,058	246,373	256,148	284,120	282,123	277,860
Connecticut.....	285,563	295,548	308,402	338,196	368,473	369,693
Delaware.....	*42,614	*44,846	*46,868	*49,619	*53,285	*53,559
Dist. of Columbia	133,048	145,807	153,854	162,922	165,257	148,614
Florida.....	234,246	279,846	299,045	323,022	347,837	352,978
Georgia.....	278,935	316,731	328,017	337,857	363,641	359,204
Idaho.....	81,371	91,002	96,895	107,185	113,605	109,716
Illinois.....	*1,276,864	*1,281,976	*1,340,340	*1,456,652	*1,554,567	*1,565,202
Indiana.....	653,710	680,480	717,883	767,279	815,724	795,118
Iowa.....	562,802	591,090	618,487	644,565	657,734	650,534
Kansas.....	*445,583	*453,099	*473,038	*490,793	493,639	476,587
Kentucky.....	262,436	294,622	302,880	320,736	345,114	350,531
Louisiana.....	190,681	199,228	209,426	228,792	245,665	248,754
Maine.....	132,902	141,302	143,086	150,606	157,736	154,027
Maryland.....	278,546	287,541	297,050	324,064	332,928	339,896
Massachusetts..	689,934	686,884	684,973	714,081	742,521	739,323
Michigan.....	*955,570	*1,025,548	*1,112,148	*1,234,692	*1,359,665	*1,269,894
Minnesota.....	580,113	593,790	621,132	669,179	704,437	705,271
Mississippi.....	131,764	140,819	152,983	162,531	173,214	163,709
Missouri.....	*594,567	632,104	650,550	681,644	701,894	703,457
Montana.....	*82,765	*97,249	*114,170	*127,839	*134,729	*130,188
Nebraska.....	336,704	350,072	347,135	353,192	350,833	342,275
Nevada.....	22,397	25,839	27,983	30,829	32,563	30,899
New Hampshire..	87,759	90,752	*93,699	*97,361	*99,983	*97,635
New Jersey.....	723,506	741,290	763,426	813,472	861,795	868,734
New Mexico.....	61,353	66,788	74,212	85,906	90,833	89,592
New York.....	1,946,203	1,974,236	2,024,043	2,134,350	2,233,695	2,259,468
North Carolina..	332,648	371,047	398,466	434,779	449,897	461,141
North Dakota...	*128,547	129,888	135,437	137,591	141,104	141,195
Ohio.....	*1,396,125	*1,453,420	*1,543,689	*1,604,775	*1,695,648	*1,686,555
Oklahoma.....	385,755	403,364	419,246	441,276	448,588	441,184
Oregon.....	207,202	232,706	250,970	278,130	299,689	297,492
Pennsylvania....	1,415,522	1,466,186	1,516,375	1,621,532	1,738,797	1,730,893
Rhode Island...	118,296	124,062	130,169	140,417	148,583	149,634
South Carolina..	144,940	181,957	206,158	243,662	260,820	246,585
South Dakota...	146,485	146,143	152,340	158,264	155,948	152,138
Tennessee.....	278,332	298,558	309,867	329,405	341,648	337,584
Texas.....	1,013,086	1,085,876	1,125,049	1,192,147	1,237,348	1,231,424
Utah.....	84,014	84,823	88,419	97,419	105,571	107,038
Vermont.....	65,652	69,309	72,482	75,310	79,606	78,360
Virginia.....	290,617	316,640	325,179	352,281	371,706	373,896
Washington....	364,858	357,917	384,994	420,222	450,906	440,128
West Virginia...	193,570	192,067	213,076	236,532	246,162	230,637
Wisconsin.....	566,450	589,179	623,893	690,525	713,166	703,807
Wyoming.....	41,917	51,888	55,405	61,129	64,459	63,176
Totals....	20,643,564	21,532,408	22,562,847	24,178,211	25,449,924	25,261,649

*Buses not included; other states, included.

Motor Truck

Registrations by States—1933-1938

(Figures from U. S. Bureau of Public Roads as of December 31st)

STATES	1933	1934	1935	1936	1937	1938
Alabama.....	29,838	34,101	38,989	50,735	56,111	51,916
Arizona.....	14,569	16,791	17,964	20,183	22,973	22,998
Arkansas.....	32,980	35,700	40,107	47,838	55,944	53,346
California.....	220,087	237,556	*253,908	*267,451	*295,275	*297,715
Colorado.....	27,433	27,858	28,430	31,930	55,094	54,914
Connecticut....	54,967	56,298	58,425	65,067	68,091	70,642
Delaware.....	*8,485	*9,394	*9,692	*10,010	*10,314	*10,519
Dist. of Columbia	16,742	17,263	17,610	18,397	18,862	14,249
Florida.....	45,019	55,359	57,199	63,885	70,308	70,043
Georgia.....	51,212	60,262	66,079	72,726	78,206	73,156
Idaho.....	14,884	17,861	21,371	25,852	28,505	28,135
Illinois.....	*186,186	*174,265	*185,477	*203,098	*214,379	*215,663
Indiana.....	116,361	122,791	132,767	137,809	140,292	127,670
Iowa.....	69,490	75,350	80,529	83,849	87,868	89,487
Kansas.....	*72,404	*75,565	*80,068	*87,113	93,046	97,398
Kentucky.....	32,111	37,445	43,250	51,840	59,341	63,676
Louisiana.....	42,007	44,779	59,398	73,628	77,833	77,445
Maine.....	35,271	37,693	38,079	40,948	43,171	42,663
Maryland.....	34,728	45,351	48,528	54,398	54,482	55,451
Massachusetts...	99,854	98,508	100,599	102,630	104,035	104,466
Michigan.....	*121,639	*123,405	*127,283	*138,984	*145,446	*138,941
Minnesota.....	99,130	103,882	105,861	114,448	118,161	115,970
Mississippi.....	32,324	34,115	33,306	43,359	53,072	51,486
Missouri.....	*103,795	107,709	115,819	127,971	134,001	133,661
Montana.....	*27,480	*31,087	*35,542	*39,311	*39,163	*41,138
Nebraska.....	53,947	56,560	59,043	60,595	61,893	65,055
Nevada.....	5,927	6,391	6,875	7,680	8,092	7,525
New Hampshire...	19,872	22,382	*23,455	*24,875	*25,956	*26,744
New Jersey.....	122,228	123,351	124,866	129,940	132,702	131,950
New Mexico....	15,290	16,112	18,245	22,823	27,273	26,945
New York.....	299,416	299,450	306,919	319,192	328,008	324,655
North Carolina..	49,660	61,374	64,657	69,738	75,453	76,101
North Dakota...	*25,342	26,315	28,780	29,650	32,084	33,061
Ohio.....	*158,189	*159,845	*170,938	*172,273	*180,484	*183,694
Oklahoma.....	65,957	73,928	82,855	90,638	98,675	94,215
Oregon.....	32,208	39,396	42,584	54,599	160,659	159,829
Pennsylvania...	219,497	215,016	229,026	235,834	246,024	245,573
Rhode Island...	17,965	18,332	18,428	18,723	19,003	19,254
South Carolina..	17,795	20,877	29,761	35,167	45,404	41,328
South Dakota...	22,764	23,832	26,931	28,216	28,795	28,494
Tennessee.....	33,848	37,755	42,031	151,387	158,736	161,040
Texas.....	188,676	226,276	257,055	285,977	314,766	316,919
Utah.....	16,348	17,103	17,587	19,397	21,121	19,966
Vermont.....	7,924	8,612	9,031	8,845	9,352	19,042
Virginia.....	57,266	57,268	60,376	65,182	69,005	67,566
Washington.....	62,548	64,321	68,666	79,538	84,577	83,200
West Virginia...	33,415	31,088	35,303	43,483	44,675	45,054
Wisconsin.....	104,347	120,180	130,144	144,653	141,208	136,484
Wyoming.....	10,643	13,102	14,593	15,474	17,378	17,589
Totals.....	3,230,668	3,419,254	3,664,429	3,987,339	4,255,296	4,224,031

*Includes Buses; other States include buses with passenger cars.

†Includes freight trailers.

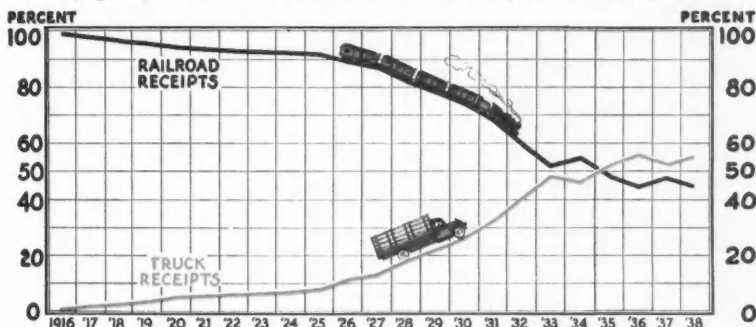
‡Trucks under 1500 lb. capacity included with passenger cars.

Standing of States in Registrations, 1938

MOTOR-VEHICLE REGISTRATION	NUMERICAL INCREASE OR DECREASE FROM 1937	PER CENT INCREASE OR DECREASE FROM 1937	POPULATION PER PASSENGER CAR
1 N. Y. 2,584,123	1 Cal. 26,214	1 Ky. 2.4	1 Cal. 2.8
2 Cal. 2,510,867	2 N. Y. 22,420	2 N. C. 2.3	2 Nev. 3.3
3 Pa. 1,976,466	3 Ill. 11,919	3 Md. 2.0	3 Ore. 3.5
4 Ohio 1,870,249	4 N. C. 11,892	4 Fla. 1.2	4 Wyo. 3.7
5 Ill. 1,780,865	5 Ky. 9,752	5 Cal. 1.1	5 Minn. 3.8
6 Tex. 1,548,343	6 Md. 7,937	6 N. Y. 0.9	6 Wash. 3.8
7 Mich. 1,408,835	7 N. J. 6,187	7 Conn. 0.9	7 Mich. 3.8
8 N. J. 1,000,684	8 Fla. 4,876	8 La. 0.8	8 Colo. 3.9
9 Ind. 922,788	9 Conn. 3,771	9 R. I. 0.8	9 Ariz. 3.9
10 Mass. 843,789	10 La. 2,701	10 Del. 0.8	10 Kan. 3.9
11 Wis. 840,291	11 R. I. 1,302	11 Ill. 0.7	11 Iowa 3.9
12 Mo. 837,118	12 Mo. 1,223	12 N. J. 0.6	12 Neb. 4.0
13 Minn. 821,241	13 N. D. 1,068	13 N. D. 0.6	13 Ohio 4.0
14 Iowa 740,021	14 Va. 749	14 Utah 0.2	14 Mont. 4.1
15 Kan. 573,985	15 Del. 479	15 Va. 0.2	15 Wis. 4.2
16 N. C. 537,242	16 Utah 312	16 Mo. 0.1	16 D. C. 4.2
17 Okla. 535,399	17 Ariz. - 419	17 Minn. -0.2	17 Ind. 4.4
18 Wash. 523,328	18 Wyo. -1,072	18 Tex. -0.2	18 Idaho 4.5
19 Va. 441,462	19 Minn. -1,357	19 Ohio -0.3	19 S. D. 4.6
20 Conn. 440,335	20 Vt. -1,556	20 Ariz. -0.3	20 R. I. 4.6
21 Ga. 432,360	21 N. H. -1,560	21 Mass. -0.3	21 Conn. 4.7
22 Fla. 425,021	22 N. M. -1,569	22 Pa. -0.4	22 N. M. 4.7
23 Ky. 414,207	23 Tenn. -1,760	23 Tenn. -0.4	23 Fla. 4.7
24 Neb. 407,330	24 Nev. -2,231	24 Iowa -0.7	24 Utah 4.9
25 Tenn. 398,624	25 Mont. -2,566	25 Ore. -0.8	25 Del. 4.9
26 Md. 395,347	26 Mass. -2,767	26 N. H. -1.2	26 Vt. 4.9
27 Ore. 357,321	27 Ore. -3,027	27 Neb. -1.3	27 Md. 5.0
28 Colo. 332,774	28 Tex. -3,771	28 Wyo. -1.3	28 N. J. 5.0
29 La. 326,199	29 S. D. -4,111	29 Colo. -1.3	29 Tex. 5.0
30 Ala. 301,990	30 Me. -4,217	30 N. M. -1.3	30 N. D. 5.0
31 S. C. 287,913	31 Idaho -4,259	31 Mont. -1.5	31 Ill. 5.0
32 W. Va. 275,691	32 Colo. -4,443	32 Wis. -1.6	32 N. H. 5.2
33 Ark. 220,391	33 Neb. -5,396	33 Vt. -1.8	33 Me. 5.6
34 Miss. 215,195	34 Iowa -5,581	34 Me. -2.1	34 Mo. 5.7
35 Me. 196,690	35 Ohio -5,883	35 Ga. -2.1	35 N. Y. 5.7
36 S. D. 180,632	36 S. C. -8,311	36 Kan. -2.2	36 Okla. 5.8
37 N. D. 174,256	37 Pa. -8,355	37 Okla. -2.2	37 Pa. 5.9
38 Mont. 171,326	38 Ark. -9,476	38 S. D. -2.2	38 Mass. 6.0
39 R. I. 168,888	39 Ga. -9,487	39 Wash. -2.3	39 Va. 7.2
40 D. C. 162,863	40 Miss. -11,091	40 S. C. -2.8	40 N. C. 7.6
41 Idaho 137,851	41 Ala. -11,369	41 Idaho -3.0	41 S. C. 7.6
42 Ariz. 128,791	42 Okla. -11,864	42 Ind. -3.5	42 W. Va. 8.1
43 Utah 127,004	43 Wash. -12,155	43 Ala. -3.6	43 Ky. 8.3
44 N. H. 124,379	44 Kan. -12,700	44 Ark. -4.1	44 Tenn. 8.6
45 N. M. 116,537	45 Wis. -14,083	45 Miss. -4.9	45 La. 8.6
46 Vt. 87,402	46 W. Va. -15,146	46 W. Va. -5.2	46 Ga. 8.6
47 Wyo. 80,765	47 D. C. -21,256	47 Nev. -5.5	47 Ala. 11.6
48 Del. 64,078	48 Ind. -33,228	48 Mich. -6.4	48 Ark. 12.3
49 Nev. 38,424	49 Mich. -96,276	49 D. C. -11.5	49 Miss. 12.3
Total. 29,485,680	Total. -219,540	Total. -0.7	Total. 5.1

Livestock Receipts by Truck 55% of Total

(Figures from Corn Belt Farm Dailies, based on data for 17 leading markets)



5,514,000 Motor Vehicles on Farms, 1938

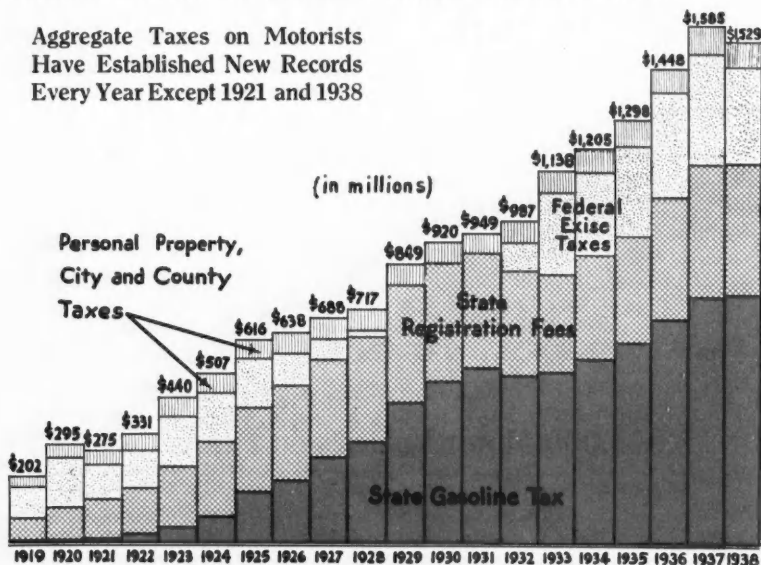
(Figures from "Successful Farming")

Passenger						Passenger		
States	Total	Cars	Trucks	States	Total	Cars	Trucks	
Ala.....	87,567	74,563	13,004	Neb.....	161,146	136,039	25,107	
Ariz.....	18,625	14,231	4,394	Nev.....	4,698	3,297	1,401	
Ark.....	75,820	64,978	10,842	N. H.....	19,397	13,760	5,637	
Calif.....	220,853	169,968	50,885	N. J.....	44,768	26,977	17,791	
Colo.....	70,983	53,621	17,362	N. M.....	37,660	27,978	9,682	
Conn.....	39,336	26,536	12,800	N. Y.....	232,473	164,219	68,254	
Del.....	12,924	9,621	3,303	N. C.....	146,551	128,599	17,952	
D. C.....	163	69	94	N. D.....	86,738	71,351	15,387	
Fla.....	51,272	35,060	16,212	Ohio.....	248,970	208,413	40,557	
Ga.....	114,522	97,012	17,510	Okla.....	143,591	120,889	22,702	
Idaho.....	46,862	39,547	7,315	Ore.....	84,173	69,830	14,343	
Ill.....	252,440	208,743	43,697	Pa.....	249,937	190,902	59,035	
Ind.....	189,640	158,786	30,854	R. I.....	8,661	5,210	3,451	
Iowa.....	252,626	229,637	22,989	S. C.....	84,888	76,280	8,608	
Kan.....	198,025	165,470	32,555	S. D.....	80,907	68,512	12,395	
Ky.....	117,847	108,832	9,015	Tenn.....	99,489	90,316	9,173	
La.....	62,523	51,444	11,079	Texas.....	368,181	313,285	54,896	
Maine.....	39,390	27,916	11,474	Utah.....	32,309	26,090	6,219	
Md.....	61,450	47,372	14,078	Vt.....	26,017	20,478	5,539	
Mass.....	35,192	22,811	12,381	Va.....	126,411	103,619	22,792	
Mich.....	218,369	175,591	42,778	Wash.....	92,994	69,587	23,407	
Minn.....	252,865	211,269	41,596	W. Va.....	51,395	42,797	8,598	
Miss.....	93,528	78,405	15,123	Wis.....	268,445	211,078	57,367	
Mo.....	212,520	190,758	21,762	Wyo.....	22,533	17,066	5,467	
Mont.....	65,961	47,696	18,265	Total.....	5,513,635	4,516,508	997,127	

Source and method of estimating—**Farm passenger cars and trucks combined:** Total 1938 passenger car and truck registrations, farm and nonfarm, ("Automotive Industries," Feb. 25, 1939) multiplied by percent of total on farms, 1935 ("Motor Fuels from Farm Products," U.S.D.A. Misc. Publication #327, Dec. 1938). **Farm passenger cars and trucks separately:** Distributed combined farm passenger cars and trucks by proportion reported in 1930 Census, except Iowa in which the proportion is based on Assessors' distribution as of Jan. 1, 1939 and Wisconsin Jan. 1, 1938.

1938 Motor Taxes Exceed 1½ Billions

Aggregate Taxes on Motorists
Have Established New Records
Every Year Except 1921 and 1938



\$1,529,000,000 Motor Owner Taxes in 1938

	State Registration Fees	State Gasoline Tax	Federal Excise Taxes†	Personal Property City and County Taxes ‡	Total*
1924	\$225,492,252	\$80,442,295	\$139,201,755	\$60,000,000	\$507,150,141
1925	260,619,621	148,358,087	143,430,709	62,000,000	616,273,492
1926	288,282,352	187,603,231	96,255,639	66,000,000	638,272,350
1927	301,061,132	258,838,813	60,473,708	68,000,000	688,373,653
1928	322,630,025	304,871,766	20,386,176	69,000,000	716,887,967
1929	347,843,543	431,311,519	.....	70,000,000	849,155,062
1930	355,704,860	493,865,117	.....	70,000,000	919,569,977
1931	344,337,654	536,397,458	.....	68,000,000	948,735,112
1932	330,005,109 ¹	513,047,239	81,290,193	68,382,000	992,724,541
1933	310,100,884 ¹	518,195,712	247,744,425	70,000,000	1,146,041,021
1934	316,662,000 ¹	565,027,000	252,151,729	70,998,000	1,204,838,729
1935	335,375,000 ¹	616,851,671	273,324,821	73,079,000	1,298,650,492
1936	374,920,000 ¹	686,631,000	314,352,976	72,363,000	1,448,266,976
1937	415,829,000 ¹	756,930,000	343,781,275	72,000,000	1,588,540,275
1938	405,246,000 ¹	766,853,000	285,213,125	72,000,000	1,529,312,125

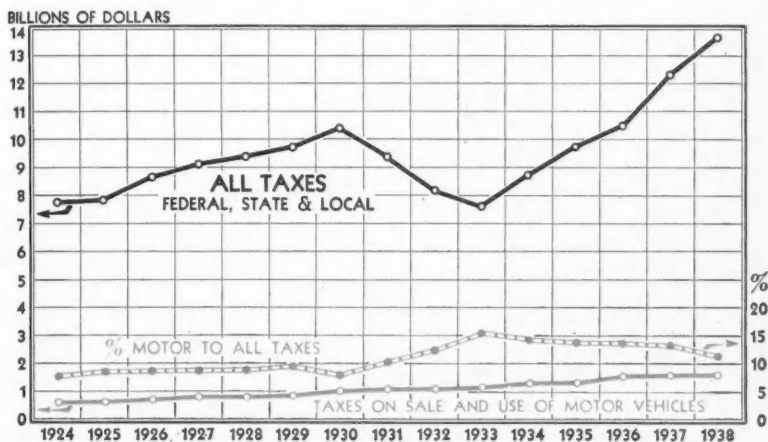
These are taxes on the motor vehicle owners. Income and property taxes on motor vehicle, body, parts and tire factories, garages, dealers, repair shops, terminals and truck, taxicab and bus operating companies are not included.

*Totals include Federal tax on vehicles for hire (fiscal year): 1924—\$2,013,339; 1925—\$1,865,075; 1926—\$131,128.

†Figures from Bureau of Internal Revenue; War tax removed May 29, 1928. ‡Estimated by Automobile Manufacturers Association, including bridge and tunnel tolls.

¹ Includes state motor carrier taxes: 1932—\$5,731,599; 1933—\$7,385,000; 1934—\$9,402,000; 1935—\$12,421,000; 1936—\$15,137,000; 1937—\$16,216,000; 1938—\$16,421,000.

Motorists Pay One Out Of Every Eight Tax Dollars



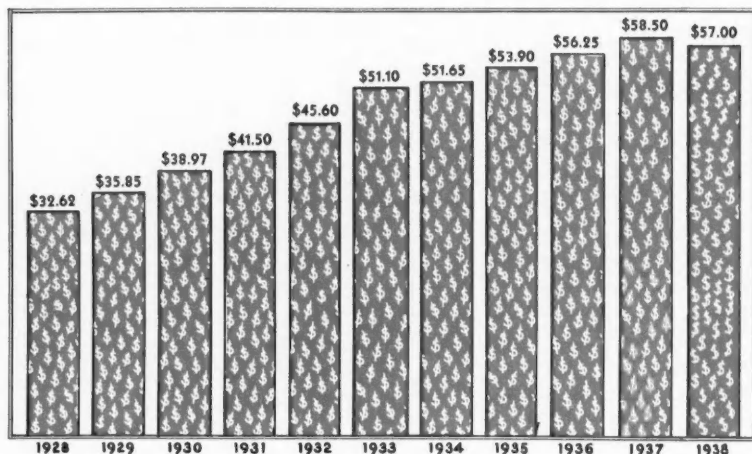
Source: Estimate of all Federal, State and Local taxes from National Industrial Conference Board

Automotive Products Pay 74% of All Federal Excise Taxes

(Source: U. S. Bureau of Internal Revenue)

	1935	1936	1937	1938
Automobiles.....	\$42,262,453	\$56,475,926	\$64,721,887	\$29,405,044
Trucks.....	6,674,270	8,044,343	8,811,651	5,230,378
Parts and Accessories.....	7,019,009	8,747,945	9,619,926	7,067,611
Rubber Tires and Tubes.....	28,102,446	38,241,552	40,088,004	26,771,719
Gasoline.....	172,263,481	186,321,448	203,025,380	200,880,797
Lubricating Oil.....	17,003,162	16,521,762	17,514,427	15,857,576
Total automotive.....	\$273,324,821	\$314,352,976	\$343,781,275	\$285,213,125
Lubricating oil, non-automotive.	11,815,756	12,463,785	16,167,164	14,637,763
Pipe lines.....	9,256,287	10,423,608	12,304,203	11,599,693
Crude Petroleum Processed....	1,691,116	859,758	933,581	583,142
Sub-Total.....	\$296,087,980	\$338,100,127	\$373,186,223	\$312,033,723
All manufacturers' excise taxes	\$381,644,814	\$417,573,395	\$472,980,013	\$387,174,593
Percent automotive to total....	71.6%	75.4%	72.7%	73.7%

Taxes Per Vehicle in Use Increased 75% in 10 Years



State Motor Taxes 37% of Total State Taxes, 1938

	Auto. Reg. Fees, & Gas Tax*	Total State Taxes†	% Motor Veh. to Total State Taxes		Auto. Reg. Fees, & Gas Tax*	Total State Taxes†	% Motor Veh. to Total State Taxes
Ala.....	\$18,038,000	\$42,292,000	42.6	Nev.....	\$1,659,000	\$3,450,000	48.1
Ariz.....	5,485,000	14,411,000	38.1	N. H.....	6,011,000	14,072,000	42.7
Ark.....	12,913,000	23,279,000	55.5	N. J.....	42,572,000	98,558,000	43.2
Calif.....	73,766,000	237,701,000	31.0	N. M.....	5,886,000	14,417,000	40.8
Colo.....	10,603,000	28,492,000	37.2	N. Y.....	113,256,000	443,963,000	25.5
Conn.....	16,056,000	41,582,000	38.6	N. C.....	30,764,000	69,597,000	44.2
Del.....	3,285,000	10,273,000	32.0	N. D.....	3,794,000	12,007,000	31.6
Fla.....	29,508,000	47,647,000	61.9	Ohio.....	73,655,000	190,271,000	38.7
Ga.....	21,681,000	40,937,000	53.0	Okla.....	21,148,000	62,729,000	33.7
Idaho.....	6,548,000	14,408,000	45.5	Ore.....	13,837,000	27,581,000	50.2
Ill.....	58,072,000	189,029,000	30.7	Pa.....	86,440,000	282,022,000	30.7
Ind.....	32,661,000	65,623,000	49.7	R. I.....	6,280,000	12,426,000	50.5
Iowa.....	25,567,000	63,650,000	40.2	S. C.....	13,117,000	30,072,000	43.6
Kan.....	15,007,000	27,490,000	54.6	S. D.....	6,508,000	14,363,000	45.3
Ky.....	17,457,000	43,206,000	40.4	Tenn.....	22,847,000	38,140,000	59.9
La.....	21,446,000	57,840,000	37.1	Tex.....	63,091,000	116,133,000	54.3
Me.....	9,159,000	22,233,000	41.2	Utah.....	4,628,000	15,325,000	30.2
Md.....	14,998,000	34,216,000	43.8	Vt.....	4,895,000	9,187,000	53.3
Mass.....	27,052,000	105,098,000	25.8	Va.....	23,007,000	47,468,000	48.5
Mich.....	49,007,000	157,376,000	31.1	Wash.....	18,872,000	58,624,000	32.2
Minn.....	28,797,000	75,084,000	38.4	W. Va.....	14,963,000	45,689,000	32.7
Miss.....	14,311,000	26,223,000	54.6	Wis.....	34,268,000	87,491,000	39.2
Mo.....	21,433,000	59,974,000	35.7	Wyo.....	3,326,000	7,358,000	45.2
Mont.....	6,040,000	13,837,000	43.7	D. C.....	4,870,000	33,823,000	....
Neb.....	13,515,000	21,932,000	61.6	U. S. . .	\$1,172,099,000	\$3,198,599,000	36.6

* Total receipts including shares allotted to state subdivisions and special motor carrier taxes. Figures obtained from U. S. Bureau of Public Roads.

† Figures obtained from Tax Policy League except for District of Columbia. This not being available, the 1937 figure was used from the National Industrial Conference Board. All total state tax figures are for fiscal years ending June 30, 1938, with the following exceptions: Idaho, Louisiana, Maine, Missouri, Ohio, Oregon, Utah and Washington, ending December 31, 1937; Pennsylvania, May 31, 1938; Texas, Aug. 31; Alabama, Maryland and Wyoming, Sept. 30; Massachusetts, Nov. 30.

\$61,000,000 Estimated State Motor Retail Sales Taxes 1938

These are general state retail taxes in addition to special automotive taxes
such as gasoline taxes and registration fees

	New Cars	New Trucks	Used Motor Vehicles	Parts and Accessories	Tires & Tubes	Lub. Oil	Total
Alabama...	\$ 83,439	\$ 30,664	\$ 79,404	\$ 176,155	\$ 75,043	\$ 97,990	\$ 542,695
Arizona...	123,171	37,985	105,468	78,120	33,279	43,494	421,517
Arkansas...	211,087	103,289	217,836	134,305	57,214	72,376	796,107
California...	4,213,873	687,480	3,093,426	2,283,372	972,727	1,118,491	12,369,369
Colorado...	307,609	84,065	269,640	203,742	86,795	96,582	1,048,433
Illinois...	3,350,528	458,236	2,735,442	1,628,903	714,300	852,026	9,739,435
Indiana...	464,233	82,756	397,428	278,186	118,508	134,450	1,475,561
Iowa...	799,382	153,589	673,548	450,682	191,993	224,720	2,493,914
Kansas...	470,123	138,982	423,132	348,146	148,312	Exempt	1,528,695
Kentucky*..	575,857	184,722	542,700	.....	.....	.....	1,303,279
Louisiana...	435,728	109,436	371,964	195,486	83,278	105,434	1,301,326
Maryland*..	229,034	40,299	192,432	.....	.....	.....	461,765
Michigan...	2,149,954	281,925	1,772,136	1,281,776	546,042	672,740	6,704,573
Mississippi..	117,972	50,978	116,976	131,009	55,810	82,495	555,240
Missouri...	944,231	202,018	807,132	509,507	217,052	256,876	2,936,816
New Mexico	28,641	13,216	27,912	72,875	31,045	29,833	203,522
No. Carolina	861,958	239,841	778,122	476,958	203,186	255,925	2,815,990
No. Dakota.	149,298	43,250	132,996	105,690	45,024	54,169	530,427
Ohio.....	2,615,942	384,321	2,172,744	1,510,129	643,322	816,271	8,142,729
Oklahoma...	595,508	157,446	519,588	323,908	137,986	170,939	1,905,375
So. Dakota.	204,816	52,579	178,452	164,753	70,186	82,567	753,353
Utah.....	127,655	36,426	108,348	87,138	37,121	39,476	436,164
Washington.	445,191	102,037	352,212	317,441	135,231	143,799	1,495,911
W. Virginia.	273,288	78,953	254,124	157,799	67,223	81,000	912,387
Wyoming...	91,215	30,744	82,128	49,151	20,938	26,410	300,586
Total...	\$19,869,733	\$3,785,237	\$16,405,290	\$10,965,231	\$4,691,615	\$5,458,063	\$61,175,169

The above figures were not furnished by the states, but indicate the probable revenue collected by each state having retail sales taxes, by applying its rate of tax to the estimated retail volume of each class of sales. The latter for "New Cars" and "New Trucks" was obtained by multiplying each state's new car and truck registrations by an estimated average unit value. There were assumed to have been twice as many used vehicle sales.

For "Parts and Accessories," the country's wholesale volume, based on the Federal Excise Tax revenue, was given an estimated mark-up for the retail value and prorated to each state in the ratio of its registration to the total U. S. registration.

For "Tires and Tubes," the Rubber Manufacturers Association figures for wholesale volume were marked-up and prorated also according to the number of cars in use.

For "Lubricating Oil," the American Petroleum Institute figures for each state's gasoline consumption by road vehicles were made the basis, using an estimated ratio of oil to gasoline used and an assumed average retail sales price per gallon.

No attempt has been made to estimate general sales taxes on other automotive products or services such as second-hand parts, repairs, garaging, etc.

*Kentucky has a use tax and Maryland an excise tax on motor vehicles. Neither state has a general retail sales tax.

\$388,825,000 State Motor

(Preliminary figures subject to correction, compiled from state authorities by

ALL COLUMNS IN THOUSANDS OF DOLLARS STATE

STATE	MOTOR VEHICLE FEES					REGISTRATION FEES, OTHER VEHICLES			Total Registra- tion Fees, All Vehicles
	Total Receipts, Regist. Fees, etc.	Total Cars and Trucks ²	Pass. Cars	Motor Trucks	Trailers and Semi- Trailers	Motor- Cycles			
Alabama.....	4,314	3,858							3,858
Arizona.....	1,076	809	398		62	2			873
Arkansas.....	2,908	2,495	1,575	920	220	3			2,718
California ⁴	23,930	21,049	16,996	4,053 ⁷	989	60			22,098
Colorado.....	2,544	2,049	1,571	478 ⁴	30	2			2,081
Connecticut.....	6,611	4,249	2,822	1,427	20	6			2,873
Delaware.....	1,216	894	607	287 ⁷	32	1			927
Florida.....	6,432	5,815	4,044	1,771	259	8			6,082
Georgia.....	1,974	1,465	985	480	148	2			1,615
Idaho.....	2,380	2,269	1,638	631	33	3			2,305
Illinois.....	21,591	19,925	14,022	5,903 ⁴	175	16			20,116
Indiana.....	9,635	7,599	5,905	1,694	316	8			7,923
Iowa.....	11,797	11,188	8,415	2,773	93	9			11,290
Kansas.....	3,823	3,463	2,543	920 ⁷	109	4			3,576
Kentucky.....	4,599	2,971	1,745	1,226	(9)	2			2,973
Louisiana.....	4,892	4,215	2,936	1,279	587	4			4,806
Maine.....	3,582	2,725	1,898	827	66 ¹⁰	4			2,795
Maryland.....	5,069	3,584	2,963	621	119	7			3,710
Massachusetts.....	6,759	4,121	2,740	1,381	28	1			4,150
Michigan.....	20,856	17,801	12,609	5,192 ⁷	1,002	16			18,819
Minnesota.....	9,377	8,832	6,889	1,943	259	7			9,098
Mississippi ¹²	4,001	3,947							3,947
Missouri.....	9,439	8,273	6,936	1,337 ⁷	140	9			8,422
Montana ¹⁴	1,546	1,169	852	317 ⁷	13	1			1,183
Nebraska.....	2,442	2,135	1,242	893	58	2			2,195
Nevada.....	265	245	155	90	5				250
New Hampshire.....	2,711	2,262				5			2,267
New Jersey.....	20,204	13,806	9,804	4,002	284	10			14,100
New Mexico.....	1,643	1,505	955	550	34	1			1,540
New York.....	47,124	43,418	31,675	11,743	573	46			44,037
North Carolina.....	7,211	6,871	4,113	2,758	(7)	7			6,878
North Dakota.....	1,523	1,404	1,073	331	3	2			1,409
Ohio.....	27,204	22,370	14,610	7,760 ⁷	1,148	(16)			23,518
Oklahoma.....	5,779	4,401	2,643	1,758	218	5			4,624
Oregon.....	2,922	2,598	1,523	1,075	(7)	4			2,602
Pennsylvania.....	34,513	27,710	19,145	8,565	390	29			28,129
Rhode Island.....	2,778	2,217	1,732	485	2	3			2,222
South Carolina.....	1,633	1,316	732	584	71	1			1,388
South Dakota.....	1,983	1,583	1,359	224	30	1			1,614
Tennessee.....	4,173	3,907			(7)				3,907
Texas.....	20,263	18,716	12,015	6,701	520	17			19,253
Utah.....	1,097	921	510	411 ⁷	34	1			956
Vermont.....	2,365	1,994	1,420	574 ¹⁴	25	3			2,022
Virginia.....	6,134	5,449	4,092	1,357	134	6			5,589
Washington.....	3,262	2,487	1,389	1,098	207	6			2,700
West Virginia.....	5,498	4,524	3,478	1,046	57	5			4,586
Wisconsin.....	13,001	12,377	9,375	3,002	322	16			12,715
Wyoming.....	601	552	360	192	34	1			587
District of Columbia.....	2,145	1,333							1,333
Partial Totals ¹⁷			224,489	91,070	8,849	346			
Full Totals.....	388,825	330,866							340,061

1—Receipts for registration periods ending not earlier than November 30 and not later than January 31 are considered calendar-year receipts. In those states where the registration period is definitely removed from the calendar year, registration receipts were obtained for the calendar-year period.

2—Segregation of registration fees by type of vehicle was not available for Alabama, Mississippi, New Hampshire, Tennessee, and the District of Columbia. Total motor-vehicle registration fees in those states include trailer and motorcycle fees, except in New Hampshire, for which motorcycle fees were reported separately. Dealers' license fees in Tennessee are also included in this column.

4—Proceeds of special excise and privilege taxes on new car sales have been segregated and entered in this column. Receipts from a 2 percent motor-vehicle excise tax in Oklahoma, imposed as part of a general sales tax, are not included in this table. Proceeds of this tax were \$1,104,000 in 1938.

4—In many states county or local officers are allowed service charges for issuing registrations, operators' licenses, etc. In the majority of cases these charges are included in registration and other fees. The amounts shown in this column are estimates of service charges collected and retained by local officials and not reported elsewhere in the table.

4—Registration fees include proceeds of state "vehicle license fees," \$10,854,000, imposed in addition to the regular registration fees of \$11,244,100.

Vehicle Registration Fees, 1938

the United States Bureau of Public Roads, calendar year except as noted¹

MISCELLANEOUS RECEIPTS									
Total	D'lers' Licenses and Plates	Oper. and Chauff. Permits	Certificate of Title	Fines and Penalties	Trans. or Reregistration Fees	Other Receipts	Unclassified Re-funds	Est'd. Serv. Charges, Local Col'tors ⁵	STATE
456	3	251	.....	193	.....	9	.....	.....	Alabama
203	4	25	.....	93	.....	81	.....	.....	Arizona
190	57	124	.....	2	5	2	.....	.....	Arkansas
1,832	74	150	.....	130	1,263	215	.....	.....	California ⁶
463	27	113	.....	159	27	66	80	-9	Colorado
2,336	106	1,663	.....	169	104	300	.....	.....	Connecticut
289	7	135	.....	33	80	13	21	.....	Delaware
350	22	10	.....	206	.....	1	22	-20	Florida
359	12	319	.....	.....	7	21	.....	.....	Georgia
75	25	38	.....	.....	.....	12	.....	.....	Idaho
1,475	91	400	.....	429	16	132	.....	-18	Illinois
1,712	50	694	.....	274	36	277	264	-112	Indiana
507	49	162	.....	.....	2	190	104	.....	Iowa
247	21	46	.....	134	.....	35	11	.....	Kansas
1,626	25	522	.....	865 ¹⁰	3	196	15	.....	Kentucky
86	12	103	.....	.....	7	.....	1	-37	Louisiana
787	44	559	.....	30	119	35	.....	.....	Maine
1,359	45	348	.....	561 ¹⁸	329	97	31	-52	Maryland
2,609	70	2,532	.....	.....	3	.....	66	-62	Massachusetts
2,037	91	943	.....	664	.....	259	80	.....	Michigan
279	58	122	.....	.....	77	.....	22	.....	Minnesota
54	5	.....	.....	.....	43	.....	6	.....	Mississippi ¹²
1,017	78	290	.....	392	2	238	17	.....	Missouri
363	22	172	.....	62	56	41	10	.....	Montana ¹⁴
215	30	68	.....	.....	.....	66	83	.....	Nebraska
15	2	.....	.....	.....	.....	11	.....	.....	Nevada
444	23	343	.....	.....	30	.....	48	.....	New Hampshire
6,104	62	3,875	.....	464	219	532	961	-9	New Jersey
103	11	.....	.....	.....	1	29	62	.....	New Mexico
3,087	208	1,067	.....	544	947	360	-39	.....	New York
333	32	121	.....	147	56	.....	12	-35	North Carolina
114	17	14	.....	81 ¹⁸	1	.....	2	-1	North Dakota
3,686	235	753	.....	418	.....	586	44	1,650	Ohio
1,155	48	207	.....	292	186	.....	125	297	Oklahoma
320	25	74	.....	175	24	.....	22	.....	Oregon
6,384	377	2,998	.....	1,668	.....	872	578	-109	Pennsylvania
556	17	426	.....	.....	.....	68	45	.....	Rhode Island
245	19	191	.....	.....	27	21	31	-44	South Carolina
369	17	.....	.....	342 ¹⁸	.....	.....	10	.....	South Dakota
266	(¹⁹)	259	.....	.....	5	.....	7	-5	Tennessee
1,010	41	417	.....	.....	398	154	.....	.....	Texas
141	14	19	.....	66	1	16	25	.....	Utah
343	26	280	.....	.....	.....	42	7	-12	Vermont
545	59	80	.....	245	.....	141	38	-18	Virginia
562	14	165	.....	219	18	.....	10	136	Washington
912	23	144	.....	661 ¹⁸	.....	.....	17	.....	West Virginia
286	23	35	.....	.....	.....	215	13	.....	Wisconsin
14	8	.....	.....	.....	.....	4	2	.....	Wyoming
812	1	298	.....	70	406	29	8	.....	District of Columbia

Partial Totals¹⁷

48,764 2,350 21,555 7,720 2,724 7,360 4,222 -588 2,421 Full Totals

¹-Included with bus fees. Bus fees included with passenger cars in other states.

²-Fees of 23,978 light trucks included with those of passenger vehicles.

³-Trailers of 1,000 pounds capacity or more prohibited on highways, although permitted in cities under city licenses. Tractor-semi trailers registered as motor trucks. Light trailers permitted but not registered.

⁴-Fees of light trailers and commercial semi trailers only. Fees of commercial full trailers included with those of motor trucks.

⁵-Fees of taxicabs included with those of motor trucks.

⁶-License year changed to November 1 during 1938. Receipts recorded in this table are for calendar year and include fees for 1939 registrations received from October 1 through December 31.

⁷-Registration fees are collected by counties and state does not maintain complete record. Figures given are estimates supplied by state.

⁸-Included with fees of automobiles.

⁹-Included with motor-vehicle registration fees.

¹⁰-Fees of trucks under 1,500 pounds capacity included with those of passenger cars.

¹¹-Totals of columns for which fully classified data were not available for all states.

¹²-Includes special titling taxes-Kentucky \$865; Maryland \$390; North Dakota \$24; South Dakota \$319; West Virginia \$525.

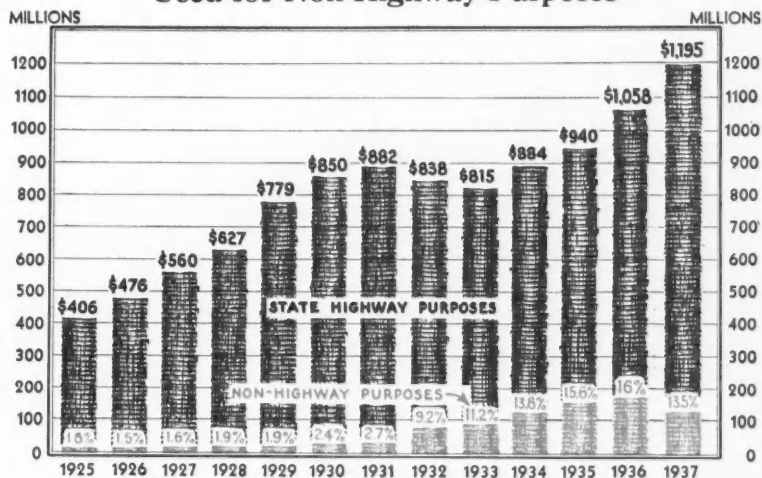
State Motor Vehicle and Gasoline Taxes

(Figures from United States Bureau of Public Roads)

In Thousands of Dollars

	Gasoline Taxes				Registration Fees Including Special Motor Carrier Taxes		
	1936	1937	1938	Total 1919 to 1938	1936	1937	1938
Alabama.....	\$11,754	\$13,295	\$13,523	\$113,977	\$4,288	\$4,655	\$4,515
Arizona.....	3,841	4,325	4,243	39,386	1,178	1,305	1,242
Arkansas.....	9,155	9,877	10,004	95,817	2,832	3,243	2,909
California.....	42,996	46,614	47,101	492,839	23,829	27,051	26,665
Colorado.....	6,833	7,431	7,465	78,722	3,157	3,224	3,138
Connecticut....	8,782	9,445	9,192	74,279	6,247	6,902	6,864
Delaware.....	1,853	2,031	2,069	16,479	1,102	1,202	1,216
Dist. of Col....	2,382	2,724	2,509	25,540	1,176	1,097	2,361
Florida.....	19,925	22,023	22,801	216,520	5,809	6,458	6,707
Georgia.....	17,493	19,550	19,633	179,863	1,702	2,523	2,048
Idaho.....	3,692	4,035	4,088	35,997	2,297	2,604	2,460
Illinois.....	33,458	35,836	36,481	296,782	19,410	21,430	21,591
Indiana.....	20,695	22,987	22,259	231,838	9,685	10,509	10,402
Iowa.....	12,196	13,023	13,233	134,592	11,293	12,455	12,334
Kansas.....	9,372	10,083	10,017	104,532	4,894	5,700	4,990
Kentucky.....	11,273	12,671	12,528	121,293	4,900	5,519	4,929
Louisiana.....	12,121	15,923	16,543	117,518	4,116	4,713	4,903
Maine.....	5,202	5,550	5,558	55,229	3,605	3,887	3,601
Maryland.....	8,921	9,857	9,929	96,890	4,744	5,577	5,069
Massachusetts..	18,448	19,836	20,194	161,339	6,879	6,930	6,858
Michigan.....	25,735	29,425	27,724	282,266	20,218	22,488	21,283
Minnesota.....	12,133	15,293	19,380	138,726	8,208	8,890	9,417
Mississippi.....	9,062	10,222	10,181	94,450	1,969	2,406	4,130
Missouri.....	11,072	11,082	11,502	119,617	9,539	10,159	9,931
Montana.....	4,455	4,581	4,452	41,592	1,767	1,578	1,588
Nebraska.....	11,218	10,925	11,026	105,762	2,158	2,630	2,489
Nevada.....	1,080	1,177	1,201	10,839	478	480	458
New Hampshire..	3,180	3,286	3,297	33,215	2,638	2,351	2,714
New Jersey.....	19,087	21,565	22,294	182,133	17,929	19,362	20,278
New Mexico....	3,389	4,003	4,066	34,374	1,467	1,697	1,820
New York.....	55,634	61,841	66,132	447,680	46,291	52,901	47,124
No. Carolina....	19,994	22,429	23,300	209,250	7,764	9,106	7,464
No. Dakota.....	2,245	2,873	2,254	27,287	1,505	1,604	1,540
Ohio.....	43,450	46,538	45,982	458,521	23,984	26,127	27,673
Oklahoma.....	13,211	13,768	13,905	148,366	5,747	6,855	7,243
Oregon.....	9,208	9,799	9,846	94,134	3,844	4,472	3,991
Pennsylvania....	49,364	55,711	51,914	473,518	35,336	38,340	34,526
Rhode Island....	2,226	3,090	3,492	24,799	2,607	2,799	2,788
So. Carolina....	9,495	10,901	11,254	105,668	2,002	1,879	1,863
So. Dakota.....	4,068	4,071	4,048	48,369	2,019	2,134	2,460
Tennessee.....	17,177	17,914	18,276	158,994	4,029	4,602	4,571
Texas.....	38,467	41,671	42,720	374,923	17,807	19,793	20,371
Utah.....	3,087	3,421	3,522	32,656	1,181	1,162	1,106
Vermont.....	2,277	2,323	2,530	23,800	2,245	2,410	2,365
Virginia.....	14,703	16,114	16,620	157,309	5,892	6,353	6,387
Washington....	14,336	15,268	15,421	135,636	3,177	4,647	3,451
W. Virginia....	6,803	8,488	9,386	76,963	5,904	6,253	5,577
Wisconsin.....	17,831	19,537	19,253	171,914	13,357	14,543	15,015
Wyoming.....	2,252	2,498	2,505	21,190	715	824	821
Total.....	\$686,631	\$756,930	\$766,853	\$6,923,384	\$374,920	\$415,829	\$405,246

One Out of Every Eight Automobile Tax Dollars Used for Non-Highway Purposes



Distribution of State Motor Vehicle Taxes

(Source: U. S. Bureau of Public Roads)

In Thousands of Dollars

Year	Collection and Administration	State Highway Purposes	Local Roads and Streets	Debt Service	Non-highway Use Amount	% of Total	Total
1925..	\$11,961	\$277,348	\$84,234	\$24,977	\$7,179	1.8	\$405,699
1926..	16,350	320,831	101,288	30,513	6,903	1.5	475,885
1927..	15,376	374,738	112,815	47,968	8,793	1.6	559,690
1928..	15,875	422,034	127,481	49,446	12,046	1.9	626,882
1929..	18,226	523,307	166,164	56,556	14,697	1.9	778,950
1930..	20,319	565,037	177,266	67,359	20,160	2.4	850,141
1931..	23,065	559,794	190,198	85,063	23,600	2.7	881,720
1932..	20,707	464,873	186,286	89,738	76,747	9.2	838,351
1933..	27,025	407,507	189,480	99,518	91,577	11.2	815,107
1934..	28,975	381,985	215,071	135,536	122,150	13.8	883,717
1935..	31,760	389,364	230,424	141,745	147,143	15.6	940,436
1936..	37,942	435,116	256,461	159,132	169,344	16.0	1,057,995
1937..	42,529	557,364	265,737	168,089	161,413	13.5	1,195,132

Note.—Taxes include state motor vehicle registration receipts, special motor carrier taxes, and gas taxes.

\$813,576,000 State Gas Taxes in 1938

(Compiled for calendar year from reports of state authorities, by the
U. S. Bureau of Public Roads)

State	RECEIPTS FROM TAXATION OF MOTOR FUEL			OTHER RECEIPTS IN CONNECTION WITH MOTOR-FUEL TAX					Total	Net Total Receipts
	Gross Receipts	Refunds Paid	Net Receipts	Dis- tributors' Licenses	Inspection Fees ¹	Fines and Penal- ties	Mis- cellaneous Receipts ²			
Ala.....	13,523		13,523		56			56	13,579	
Ariz.....	5,016	773	4,243						4,243	
Ark.....	10,004		10,004		88			88	10,092	
Calif.....	51,853	4,752	47,101	14			2	16	47,117	
Colo.....	8,623	1,158	7,465						7,465	
Conn.....	9,377	185	9,192	50				50	9,242	
Del.....	2,211	142	2,069	3		1		4	2,073	
Fla.....	22,801		22,801	28	403			431	23,232	
Ga.....	19,633		19,633						19,633	
Idaho.....	4,543	455	4,088				2	2	4,090	
Ill.....	39,519	3,038	36,481		405	2		407	36,888	
Ind.....	24,170	1,911	22,259		511			511	22,770	
Iowa.....	15,504	2,271	13,233	1				1	13,234	
Kan.....	10,017		10,017	13	105		33	151	10,168	
Ky.....	12,528		12,528			3		3	12,531	
La.....	16,543		16,543		77	7		84	16,627	
Me.....	5,755	197	5,558						5,558	
Md.....	10,695	766	9,929						9,929	
Mass.....	20,951	757	20,194						20,194	
Mich.....	29,025	1,301	27,724	4				4	27,728	
Minn.....	22,048	2,668	19,380	1	187		2	190	19,570	
Miss.....	10,696	515	10,181						10,181	
Mo.....	12,059	557	11,502		125	9		134	11,636	
Mont.....	5,491	1,039	4,452						4,452	
Neb.....	11,279	253	11,026	7	107		30	144	11,170	
Nev.....	1,278	77	1,201			1		1	1,202	
N. H.....	3,395	98	3,297			1		1	3,298	
N. J.....	24,348	2,054	22,294	68				68	22,362	
N. M.....	4,486	420	4,066	24				24	4,090	
N. Y.....	68,228	2,096	66,132	63				63	66,195	
N. C.....	23,860	560	23,300		1,002		6	1,008	24,308	
N. D.....	3,577	1,323	2,254		64			64	2,318	
Ohio.....	48,031	2,049	45,982						45,982	
Okla.....	15,538	1,633	13,905			5		5	13,910	
Ore.....	11,246	1,400	9,846						9,846	
Pa.....	51,921	7	51,914	80		7		87	52,001	
R. I.....	3,754	262	3,492	3				3	3,495	
S. C.....	11,451	197	11,254		240			240	11,494	
S. D.....	4,886	838	4,048		64			64	4,112	
Tenn.....	18,375	99	18,276		1,044			1,044	19,320	
Texas.....	49,541	6,821	42,720				27	27	42,747	
Utah.....	3,522		3,522	1		1		2	3,524	
Vt.....	2,530		2,530						2,530	
Va.....	17,661	1,041	16,620			1		1	16,621	
Wash.....	16,684	1,263	15,421	1			9	10	15,431	
W. Va.....	9,470	84	9,386	11				11	9,397	
Wisc.....	20,902	1,649	19,253		194			194	19,447	
Wyo.....	2,505		2,505	3				3	2,508	
D. of C.....	2,523	14	2,509	11				11	2,520	
Total..	813,576	46,723	766,853	386	4,672	38	111	5,207	772,060	

¹—Fees for inspection of motor-vehicle fuel. Wherever possible, fees for inspection of kerosene and other non-motor vehicle fuels have been eliminated.

²—Includes fees for motor-fuel carrier permits, refund or exemption permits and miscellaneous unclassified receipts.

³—Receipts from tax on lubricating oil, \$784,000, not included in this table.

⁴—Special county taxes of 3 cents per gallon in Hancock County and 2 cents per gallon in Harrison County, amounting to \$163,000 in 1938, are imposed for seawall protection and are not included in this table.

⁵—Ohio imposes a 3-cent tax on motor-vehicle fuel and a 1-cent tax on all liquid fuels. The receipts from 1-cent tax applicable to non-motor-vehicle fuels (kerosene, fuel oil, etc.) were \$633,000. These receipts have been eliminated from the total given, which represents a 4-cent tax on motor-vehicle fuel.

1938 Gasoline Consumption Sets Record

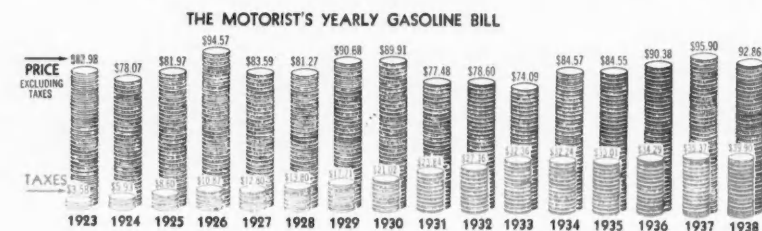
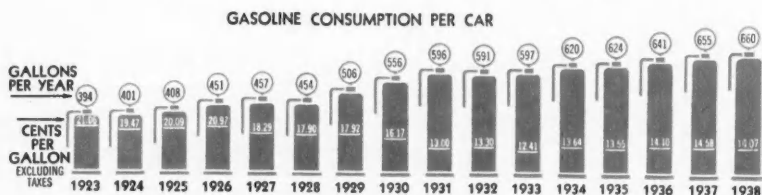
(Source: U. S. Bureau of Public Roads)

STATE	—NET AMOUNT TAXED—									
	Tax Rate Per Gallon (²)	Gross Amount Reported (³)	Amount Exempted from Payment of Tax (⁴)	Gross Amount Assessed for Taxation (⁵)	Amount Subject to Refund of Entire Tax (⁶)	AT OTHER RATES				
						At Pre- vailing Rate (⁷)	Rate Per Gallon (⁸)	1,000 Amt. Gallons		
	Cents	1,000 Gallons	1,000 Gallons	1,000 Gallons	1,000 Gallons	1,000 Gallons	Cents			
Ala.....	6	226,838	.....	226,838	.....	226,838	.....	.....	.....	.....
Ariz.....	5	102,711	5,487	97,224	12,690	84,534	.....	84,534	.....	.....
Ark.....	6½	166,200	6,256	159,944	.....	159,944	(⁹)	16,465	.....	.....
Calif.....	3	1,763,625	33,284	1,730,341	158,413	1,571,928	.....	1,571,928	.....	.....
Colo.....	4	227,258	10,445	216,813	28,869	187,944	.....	187,944	.....	.....
Conn.....	3	326,263	7,377	318,886	6,176	312,710	.....	312,710	.....	.....
Del.....	4	56,638	1,256	55,382	2,892	52,490	.....	52,490	.....	.....
Fla.....	7	338,650	11,812	326,838	.....	326,838	.....	326,838	.....	.....
Ga.....	6	339,392	10,471	328,921	.....	328,921	.....	328,921	.....	.....
Idaho.....	5	95,077	3,870	91,207	9,130	82,077	.....	81,888	2½	189
Ill.....	3	1,358,680	.....	1,358,680	102,664	1,256,016	.....	1,256,016	.....	.....
Ind.....	4	612,714	2,057	610,657	47,778	562,879	.....	562,879	.....	.....
Iowa.....	3	524,535	.....	524,535	78,629	445,906	.....	445,906	.....	.....
Kans.....	3	459,433	121,906	337,527	.....	337,527	.....	337,527	.....	.....
Ky.....	5	256,516	.....	256,516	.....	256,516	.....	256,516	.....	.....
La.....	7	247,176	4,965	242,211	4	242,207	.....	234,941	2	7,266
Me.....	4	144,866	882	143,984	.....	143,984	.....	137,406	1	6,578
Md.....	4	271,434	4,226	267,208	18,600	248,608	.....	246,433	3	2,175
Mass.....	3	690,203	2,702	687,501	25,247	662,254	.....	662,254	.....	.....
Mich.....	3	1,053,961	81,484	972,477	43,184	929,293	.....	928,920	1½	1073
Minn.....	4	536,861	24,749	512,112	64,668	447,444	.....	447,444	.....	.....
Miss.....	6	190,248	9,147	181,101	.....	181,101	.....	171,044	1	110,057
Mo.....	2	608,472	.....	608,472	27,386	581,086	.....	581,086	.....	.....
Mont.....	5	117,164	6,455	110,709	21,259	89,450	.....	89,450	.....	.....
Neb.....	5	232,817	9,469	223,348	39	223,309	.....	223,309	.....	.....
Nev.....	4	34,771	2,886	31,885	1,927	29,958	.....	29,958	.....	.....
N. H.....	4	85,157	.....	85,157	2,443	82,714	.....	82,714	.....	.....
N. J.....	3	812,804	3,257	809,547	67,112	742,435	.....	742,435	.....	.....
N. M.....	5	96,450	6,410	90,040	8,390	81,650	.....	81,651	7½	1129
N. Y.....	4	1,802,216	64,987	1,737,229	52,557	1,684,672	.....	1,684,672	.....	.....
N. C.....	6	403,333	6,294	397,039	.....	397,039	.....	385,834	1	111,205
N. D.....	3	122,866	1,353	121,513	35,738	85,775	.....	85,775	.....	.....
Ohio ¹⁰	4	1,278,825	63,190	1,215,635	8,797	1,206,838	.....	1,157,015	1	49,823
Okl.....	4	403,795	12,311	391,484	41,294	350,190	.....	350,190	.....	.....
Oreg.....	5	230,187	4,927	225,260	26,616	198,644	.....	197,797	1	4847
Pa.....	4	1,403,587	6,519	1,397,068	.....	1,397,068	.....	1,397,068	.....	.....
R. I.....	3	120,886	1,023	119,863	2,989	116,874	.....	116,874	.....	.....
S. Ca.....	6	192,170	.....	192,170	3,387	188,783	.....	188,783	.....	.....
S. D.....	4	132,002	7,353	124,649	24,981	99,668	.....	99,668	.....	.....
Tenn.....	7	280,862	14,976	265,886	1,723	264,163	.....	264,163	.....	.....
Texas.....	4	1,267,298	23,886	1,243,412	167,561	1,075,851	.....	1,075,851	.....	.....
Utah.....	4	92,950	5,100	87,850	.....	87,850	.....	87,850	.....	.....
Vt.....	4	64,324	1,024	63,300	.....	63,300	.....	63,300	.....	.....
Va.....	5	355,150	.....	355,150	20,823	334,327	.....	334,327	.....	.....
Wash.....	5	341,023	6,044	334,979	25,282	309,697	.....	309,697	.....	.....
W. Va.....	5	190,397	.....	190,397	1,482	188,915	.....	188,915	.....	.....
Wisc.....	4	542,883	16,884	525,999	41,887	484,812	.....	484,812	.....	.....
Wy.....	4	65,356	1,980	63,376	.....	63,376	.....	63,376	.....	.....
D. of C.....	2	139,612	5,586	134,026	701	133,325	.....	133,325	.....	.....
TOTAL	13.96	21,406,636	614,290	20,792,346	1,182,618	19,609,728	19,504,621	.....	105,107	.....

¹—Export sales and other amounts not representing consumption in state have been eliminated as far as possible. In cases where states failed to report amounts exempted from taxation, the gross amount taxed is shown in this column. ²—Includes allowances for evaporation and other losses. Federal use, other public use, and nonhighway use, where initial exemptions rather than refunds are made. ³—Within 300 feet of border, tax is reduced to that of adjacent state. Gallons taxed at 2 cents, 3,787,000; at 4 cents, 12,678,000. ⁴—Motor fuel used in aviation. ⁵—Represents evaporation or loss allowance under 5-cent tax not allowed under additional 2-cent tax, which is administered under a separate law. ⁶—Three cents per gallon refunded on nonhighway uses. ⁷—One cent per gallon refunded on motor fuel used in vehicles licensed to operate exclusively in cities. ⁸—One and one-half cents per gallon refunded on motor fuel used in interstate aviation. ⁹—Five cents per gallon refunded on nonhighway uses. ¹⁰—Diesel oil taxed at 7½ cents per gallon. ¹¹—Amounts given do not include 66,240,000 gallons of liquid fuel (kerosene, fuel oil, etc.) taxed at 1 cent per gallon but not subject to the 3-cent tax on motor-vehicle fuel. ¹²—Four cents per gallon refunded on motor fuel used in aviation. ¹³—Weighted average rate.

The Motorist's Gas Tax Bill Grows Bigger

(Source: American Petroleum Industries Committee)

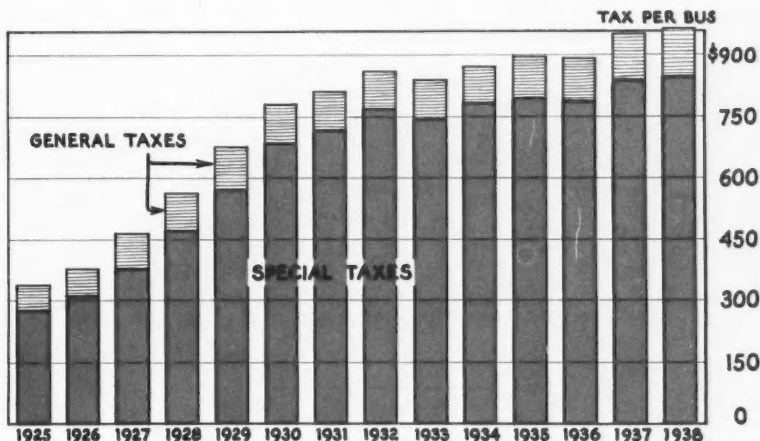


Gasoline Prices and Taxes 1919-1938

50 Representative Cities, Average First of Month, in Cents per Gallon

	Tank Wagon (Ex. Tax)	Service Station (Ex. Tax)	State and Federal Gasoline Tax	Service Station (Inc. Tax)
1919.....	\$. 2411	\$. 2541	\$. 0006	\$. 2547
1920.....	.2805	.2974	.0009	.2983
1921.....	.2409	.2611	.0020	.2631
1922.....	.2263	.2483	.0038	.2520
1923.....	.1866	.2106	.0091	.2197
1924.....	.1686	.1947	.0148	.2095
1925.....	.1746	.2009	.0211	.2220
1926.....	.1842	.2097	.0241	.2338
1927.....	.1581	.1829	.0280	.2109
1928.....	.1561	.1790	.0304	.2094
1929.....	.1557	.1792	.0350	.2142
1930.....	.1449	.1617	.0378	.1995
1931.....	.1178	.1300	.0400	.1700
1932.....	.1245	.1330	.0463	.1793
1933.....	.1162	.1241	.0542	.1783
1934.....	.1226	.1364	.0520	.1884
1935.....	.1202	.1355	.0529	.1884
1936.....	.1263	.1410	.0535	.1945
1937.....	.....	.1458	.0540	.1998
1938.....	.....	.1407	.0544	.1951

Special Taxes Per Bus Nearly Tripled Since 1925



Revenue Buses Paid \$49,530,000 Special Taxes, 1938

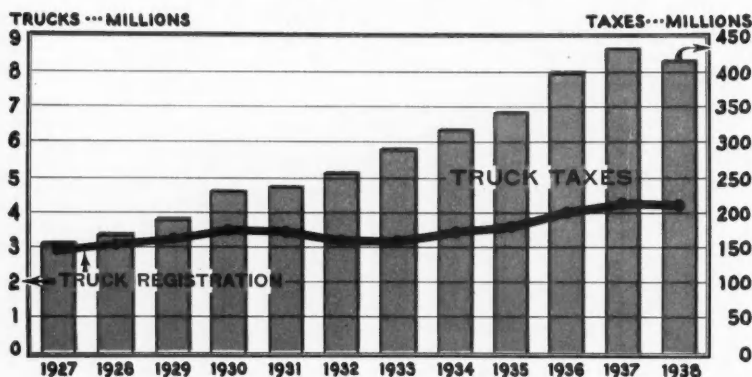
(Figures from National Association of Motor Bus Operators)

Year	Special Taxes	General Taxes*	Total Bus Taxes*	Special Taxes Per Bus	General Taxes Per Bus	Total Taxes Per Bus	Special Tax Per Bus Per Mile of Highway Used
1925.....	\$10,300,000	\$2,300,000	\$12,600,000	\$274.29	\$61.25	\$335.54	\$49.24
1926.....	13,100,000	3,000,000	16,100,000	311.65	71.37	383.02	55.36
1927.....	16,800,000	3,300,000	20,100,000	386.33	75.89	462.22	64.28
1928.....	21,200,000	3,800,000	25,000,000	474.61	85.07	559.68	74.16
1929.....	26,500,000	4,500,000	31,000,000	576.04	97.82	673.86	81.25
1930.....	31,200,000	4,900,000	36,100,000	677.00	106.32	783.32	90.87
1931.....	32,525,000	4,125,000	36,650,000	716.41	90.86	807.27	88.62
1932.....	34,500,000	4,150,000	38,650,000	766.67	92.22	858.89	90.93
1933.....	33,470,000	4,050,000	37,500,000	743.77	89.56	833.33	81.64
1934.....	33,300,000	3,980,000	37,280,000	774.42	92.56	866.98	82.91
1935.....	35,625,000	4,750,000	40,375,000	791.66	105.56	897.22	89.05
1936.....	38,475,500	5,125,500	43,601,000	785.22	104.60	889.82	97.18
1937.....	43,231,000	5,761,000	48,992,000	839.43	111.87	951.30	109.90
1938 ¹	42,630,000	6,900,000	49,530,000	848.00	113.20	962.00	110.80

¹—Figures from "Bus Transportation."

*Does not include income and excess profits taxes.

1938 Motor Truck Taxes Near Record



1938 Special Truck Taxes \$416,022,000

Personal property taxes on trucks in operation, income and property taxes on garages, terminals, repair shops, and trucking companies are not included.

In Thousands of Dollars

	Regis- tration Fees (State)	Gas- line Tax (State)	Miscel- laneous Taxes (State)	Federal Excise Taxes	Special City & County Taxes	Total Special Taxes	Average Per Truck Registered
1927.....	\$64,691	\$75,108	\$ 4,896	.....	\$ 6,000	\$150,695	\$51.80
1928.....	69,400	87,161	5,467	.....	6,400	168,428	54.15
1929.....	72,823	108,506	6,352	.....	6,800	194,481	57.50
1930.....	78,789	138,055	7,042	.....	7,200	231,086	66.40
1931.....	76,616	144,756	7,724	.....	7,600	236,696	68.50
1932.....	74,046	139,376	7,360	\$23,537	8,000	252,319	78.25
1933.....	68,659	142,287	8,525	61,936	8,750	290,157	90.31
1934.....	71,852	154,170	20,170 ¹	63,038	9,000	318,230	93.44
1935.....	78,598	161,743	23,649	68,331	10,000	342,321	93.93
1936.....	89,160	191,455	28,997	78,588	10,500	398,700	100.51
1937.....	95,115	208,783	33,716	85,112	11,000	433,726	102.41
1938.....	95,456	206,791	31,971	71,304	10,500	416,022	98.99

¹—Includes special motor carrier taxes which were not compiled prior to 1934.

Special Motor Truck Taxes by States

State Registration Fees and State and Federal Gasoline Taxes on Trucks

	1937			1938		
	State License Fees*	Gasoline Tax	1937 Total	State License Fees*	Gasoline Tax	1938 Total
Alabama.....	\$1,589,500 ¹	\$4,713,324	\$6,302,824	\$1,457,500 ¹	\$4,360,944	\$5,818,444
Arizona.....	689,700	1,654,056	2,343,756	675,300	1,655,856	2,331,156
Arkansas.....	1,852,000	5,034,960	6,886,960	1,187,000	4,801,140	5,988,140
California.....	8,677,000	14,473,200	22,850,200	7,953,000	14,166,048	22,119,048
Colorado.....	1,229,000	3,305,640	4,534,640	1,178,400	3,294,840	4,473,240
Connecticut.....	2,037,000	3,268,368	5,305,368	2,074,000	3,390,816	5,464,816
Delaware.....	343,600	618,840	962,440	364,200	626,580	990,780
Florida.....	2,260,000	6,749,568	9,009,568	2,362,800	6,724,128	9,086,928
Georgia.....	1,056,500	6,569,304	7,625,804	763,000	6,145,104	6,908,104
Idaho.....	821,400	2,052,360	2,873,760	759,300	2,025,720	2,785,020
Illinois.....	6,188,300	10,290,192	16,478,492	6,207,000	10,256,112	16,463,112
Indiana.....	3,134,000	8,417,520	11,551,520	2,996,000	7,660,200	10,656,200
Iowa.....	3,408,000	4,217,664	7,625,664	3,464,200	4,295,376	7,759,576
Kansas.....	2,226,400	4,466,208	6,692,608	2,233,300	4,675,104	6,908,904
Kentucky.....	1,920,800	4,272,552	6,193,352	1,805,000	4,584,672	6,389,672
Louisiana.....	1,837,400	7,471,968	9,309,368	1,897,400	7,434,720	9,332,120
Maine.....	1,027,000	2,590,260	3,617,260	1,082,800	2,559,780	3,642,580
Maryland.....	1,007,300	3,268,920	4,276,220	930,000	3,327,060	4,257,060
Massachusetts.....	1,795,000	4,993,680	6,788,680	1,846,000	5,014,368	6,860,368
Michigan.....	7,035,000	6,981,408	14,016,408	6,735,600	6,557,568	13,293,168
Minnesota.....	2,253,200	7,089,660	9,342,860	2,281,400	6,958,200	9,239,600
Mississippi.....	1,390,700 ¹	4,458,048	5,848,748	1,310,900 ¹	4,324,824	5,635,724
Missouri.....	2,172,000	4,824,036	6,996,036	2,132,000	4,811,796	6,943,796
Montana.....	477,700	2,819,736	3,297,436	456,900	2,946,528	3,403,428
Nebraska.....	894,200	4,456,296	5,350,496	1,037,600	4,683,960	5,721,560
Nevada.....	312,800	485,520	798,320	290,800	451,500	742,300
New Hampshire.....	657,100 ¹	1,557,360	2,214,460	699,500 ¹	1,599,720	2,299,220
New Jersey.....	5,104,000	6,369,696	11,473,696	5,164,000	6,333,600	11,497,600
New Mexico.....	692,400	1,963,656	2,656,056	784,800	1,940,040	2,724,840
New York.....	13,586,000	19,680,480	33,266,480	12,694,000	19,479,300	32,173,300
North Carolina.....	3,408,500	6,338,052	9,746,552	3,058,200	6,392,484	9,450,684
North Dakota.....	397,300	1,540,032	1,937,332	372,600	1,586,928	1,959,528
Ohio.....	9,513,700	10,829,040	20,342,740	9,655,000	10,893,780	20,548,780
Oklahoma.....	3,288,000	5,920,500	9,208,500	3,643,000	5,652,900	9,295,900
Oregon.....	2,304,000	4,367,448	6,671,448	2,197,600	4,307,688	6,505,288
Pennsylvania.....	10,337,000	14,761,440	25,098,440	9,762,000	14,734,380	24,496,380
Rhode Island.....	560,200	912,144	1,472,344	560,500	924,192	1,484,692
South Carolina.....	749,200	3,813,936	4,563,136	920,300	3,471,552	4,391,852
South Dakota.....	739,600	1,727,700	2,467,300	789,300	1,709,640	2,498,940
Tennessee.....	1,767,400 ¹	5,638,656	7,406,056	1,824,800 ¹	5,859,840	7,684,640
Texas.....	7,344,100	18,885,960	26,230,060	7,536,000	19,015,140	26,551,140
Utah.....	521,700	1,267,260	1,788,960	464,200	1,197,960	1,662,160
Vermont.....	671,700	561,120	1,232,820	634,400	542,520	1,176,920
Virginia.....	1,807,400	4,968,360	6,775,760	1,827,500	4,864,752	6,692,252
Washington.....	1,821,300	6,089,544	7,910,844	1,583,400	5,990,400	7,573,800
West Virginia.....	1,431,000	3,216,600	4,647,600	1,331,000	3,243,888	4,574,888
Wisconsin.....	5,014,500	8,472,480	13,486,980	5,384,500	8,189,040	13,573,540
Wyoming.....	453,400	1,042,680	1,496,080	449,100	1,055,340	1,504,440
Dist. of Col.....	314,300	679,032	993,332	610,000 ¹	512,964	1,122,964

U. S. Total..... \$130,119,300 \$259,846,464 \$389,965,764 \$127,427,600 \$257,230,992 \$384,658,592

*Includes motor carrier taxes, trailer fees, proportion of dealers, operators, chauffeurs' permits and miscellaneous receipts.

¹ Estimated by multiplying U. S. average tax per truck, for those states segregating truck taxes, by the number of trucks registered.

No attempt has been made to estimate Federal excise taxes on new trucks (2% of wholesale value), parts and accessories (2%), lubricating oil (4 cts. a gallon), tires (2 1/4 cts a lb.), inner tubes (4 cts. a lb.). Nor has an estimate been included for special municipal and county gasoline taxes and registration fees on trucks effective in many states.

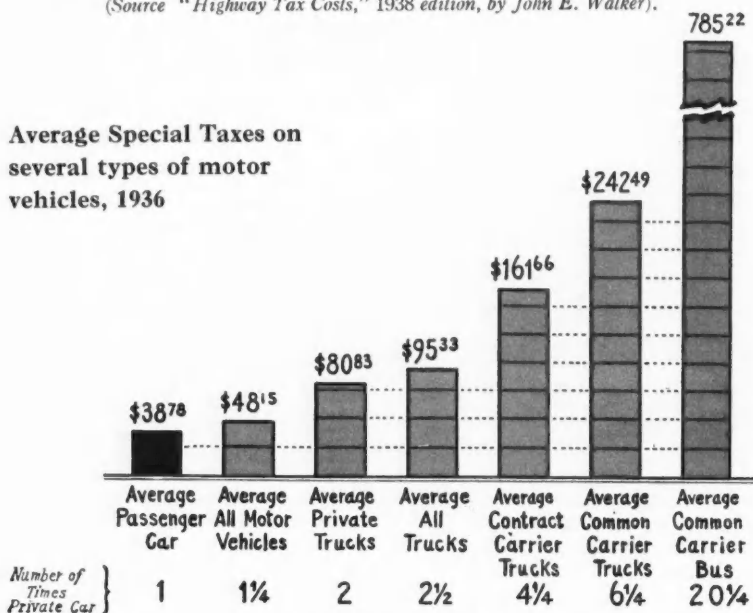
Personal property taxes and general sales taxes have likewise not been included. The table represents state registration fees and state and Federal gasoline taxes only.

The gasoline tax paid by trucks has been estimated by multiplying the trucks registered in each state by a yearly average consumption of 1200 gallons per truck, times the gas tax rate effective in each state plus Federal excise of 1 cent.

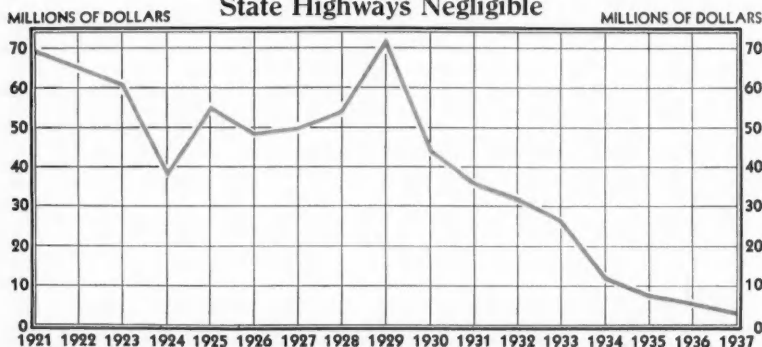
Average Common Carrier Truck Pays 6 Times and Bus 20 Times Tax on Private Passenger Car

(Source "Highway Tax Costs," 1938 edition, by John E. Walker).

Average Special Taxes on several types of motor vehicles, 1936



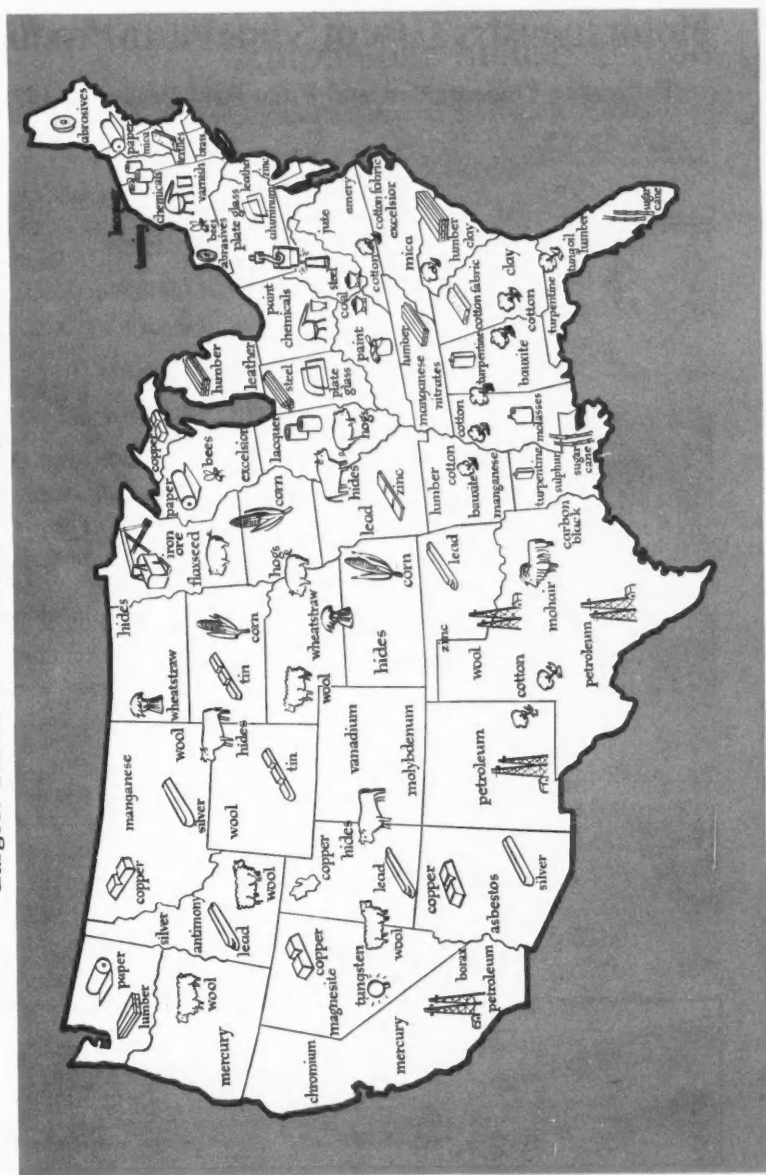
State Road Taxes and Appropriations from General Funds for State Highways Negligible



State road taxes for state highway purposes in 1937 were levied in seven states, totaling only \$775,000. These states were: Colo., Idaho, Md., N. M., S. D., Wash., and Wyo. Appropriations from general funds were made in only three states (Me., N. D., and W. Va.), totaling \$2,210,000, of which \$2,200,000 was in W. Va. where all local roads come under the jurisdiction of the state highway department. Source: U. S. Bureau of Public Roads' table S. F.—1, 1937.

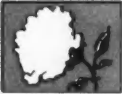





Every State Supplies Materials Used in Automotive Industry

Largest Customer of Several Leading Industries



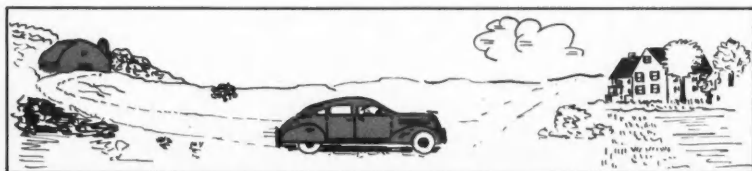
Motor Industry's Use of Some Farm Products

Estimated Consumption and Price Paid Producer, 1938

	Units	Value	
 { Cotton, bales	*550,000	\$23,100,000	
{ Cotton Linters, lbs.	24,432,000	\$610,800	
Wool, lbs.	15,422,000	\$2,946,000	
Mohair, lbs.	6,300,000	\$2,192,000	
 { Cattle (hides), no.	*256,000	\$1,797,000	
{ Hogs (fats, hair), no.	36,000	\$405,400	
Sugar Cane, tons	590,000	\$1,534,000	
Soy Beans, bus.	680,000	\$654,800	
Corn, bus.	1,115,000	\$579,800	
 Flaxseed, bus.	174,700	\$326,700	
Turpentine, lbs.	4,828,200	\$193,100	
Beeswax, lbs.	18,590	\$3,300	

Other farm products used in considerable quantities are not here included because of the impossibility of estimating their consumption, such as wood pulp, wheat straw and other cellulose materials, or the fact that they are principally imported such as rubber, jute, sisal, castor beans, cork, chamois, silk and tung nut oil.

*Estimate includes use in replacements and repairs.



Raw Materials Used in Automobile Industry, 1938

Automobile Industry Largest Purchaser of Several Commodities

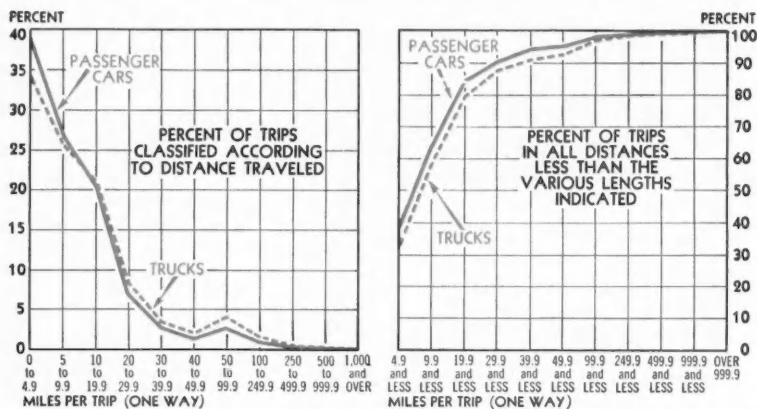
	Percent Used by Motor Industry	Rank as Consumer		Percent Used by Motor Industry	Rank as Consumer
Strip steel ¹ . . .	51%	First	Gasoline	90%	First
Bars ¹	34%	First	Rubber	80%	First
Sheets ¹	41%	First	Plate glass	69%	First
Malleable iron. .	53%	First	Nickel	29%	First
Alloy steel ¹ . . .	54%	First	Lead	35%	First
Steel, all forms. .	17%	First	Mohair	40%	First

	U. S. Total Consumption	Automotive Consumption*	Percent Automotive
Steel ¹ (gross tons)	18,693,000	3,156,000	16.9%
Iron, malleable (tons)	334,000	176,000	53%
Gray iron (tons) . . . . .	.....	653,000	.....
Rubber, crude (long tons)	411,363	329,090	80%
Plate glass (square feet)	91,000,000	63,000,000	69%
Leather, upholstery (square feet)	32,670,000	21,156,000	65%
Aluminum (tons)	123,500	13,100	10.6%
Copper (tons)	605,000	73,400	12.1%
Tin (long tons)	65,000	6,000	9.2%
Lead (tons)	546,000	191,700	35.1%
Zinc (tons)	421,000	43,300	10.3%
Nickel (pounds)	43,547,000	12,600,000	29%
Cotton (bales)	5,903,381	619,434	10.5%
Mohair (pounds)	17,200,000	6,300,000	36.6%
Lumber, hardwood (board feet).	3,065,000,000	100,000,000	3.2%
Lumber, softwood (board feet). . . . .	.....	101,600,000	.....
Glycerine (pounds)	134,614,177	17,500,000	13%
Cloth, upholstery (yards) . . . . .	.....	13,630,000	.....
Gasoline (gallons)	21,909,594,000	19,718,000,000	90%
Antifreeze solutions (gallons)	32,000,000	32,000,000	100%

* Estimated amounts used in manufacturing motor vehicles, repair parts and accessories in 1938. Consumption of gasoline and anti-freeze solutions was, of course, used in the operation of motor vehicles.

¹—Figures from the magazine "Steel."

91% of Motor Vehicle Trips Under 30 Miles



Source: "Public Roads," May 1939, published by the U. S. Bureau of Public Roads

80% of Trips by Truck Under 20 Miles

(Source: "Public Roads," May 1939, published by the U. S. Bureau of Public Roads)

Length of One-Way Trip From Point of Origin (Miles)	PASSENGER CARS			TRUCKS			TOTAL		
	No. of Trips (000)	Per-cent	Cumulative Per-cent	No. of Trips (000)	Per-cent	Cumulative Per-cent	No. of Trips (000)	Per-cent	Cumulative Per-cent
0 to 4.9	835,059	38.4	38.4	184,952	34.0	34.0	1,020,011	37.5	37.5
5.0 to 9.9	576,295	26.5	64.9	138,916	25.5	59.5	715,211	26.3	63.8
10.0 to 19.9	438,222	20.1	85.0	113,521	20.8	80.3	551,743	20.3	84.1
20.0 to 29.9	143,765	6.6	91.6	41,855	7.7	88.0	185,620	6.8	90.9
30.0 to 39.9	61,923	2.8	94.4	20,030	3.7	91.7	81,953	3.0	93.9
40.0 to 49.9	27,784	1.3	95.7	10,262	1.9	93.6	38,046	1.4	95.3
50.0 to 99.9	61,232	2.8	98.5	23,908	4.4	98.0	85,140	3.1	98.4
100.0 to 249.9	25,743	1.2	99.7	9,911	1.8	99.8	35,654	1.3	99.7
250.0 to 499.9	3,628	.2	99.9	1,034	.2	100.0	4,662	.2	99.9
500.0 to 999.9	825	.1	100.0	110	(1)	(1)	935	.1	100.0
1,000.0 and over	489	(1)	(1)	45	(1)	(1)	534	(1)	(1)
Total	2,174,965	100	100	544,544	100	100	2,719,509	100	100

(1)—Less than 0.1 percent.

Annual Mileage Decreases With Age of Car



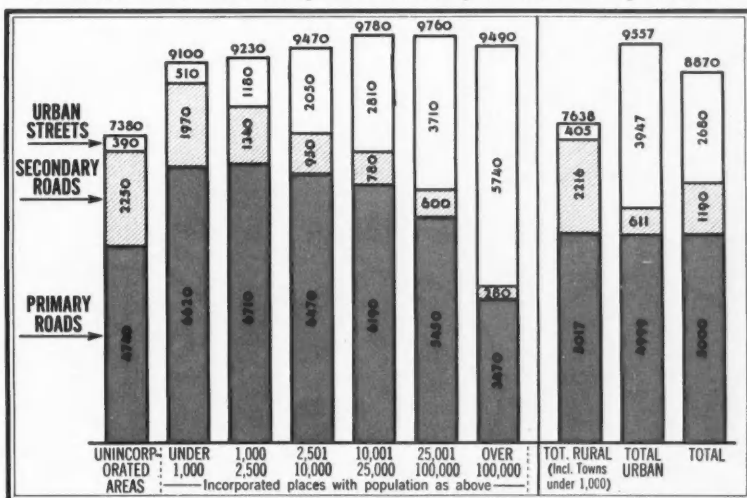
Average Annual Mileage Traveled by Passenger Cars

Age in Years	Annual Mileage ¹	Age in Years	Annual Mileage ¹
1	13,000	9	5,400
2	11,800	10	4,700
3	10,600	11	4,100
4	9,600	12	3,600
5	8,700	13	3,100
6	7,800	14	2,700
7	6,900	15	2,400
8	6,100	Average, all ages	
			8,860

¹—From preliminary data obtained in State-wide highway planning surveys in fifteen states in cooperation with U. S. Bureau of Public Roads.

Average Vehicle Travels 8,870 Miles Yearly

Annual Mileage Driven per Passenger Car and Truck Registered in Cities of Various Sizes on Primary and Secondary Roads and City Streets

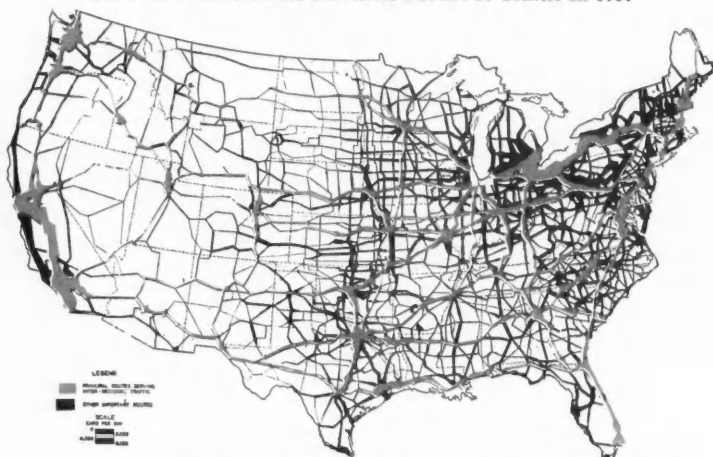


Note—The above charts are based on preliminary data from road-use studies conducted by State Highway Departments and the U. S. Bureau of Public Roads. "Public Roads—A Journal of Highway Research," May, 1939. Seventeen states cooperating were: Colorado, Florida, Iowa, Louisiana, Michigan, Minnesota, Missouri, Montana, New York, Ohio, Oklahoma, Oregon, Pennsylvania, South Dakota, Utah, Washington and Wisconsin.

Average Daily Passenger Car Travel on Selected Routes

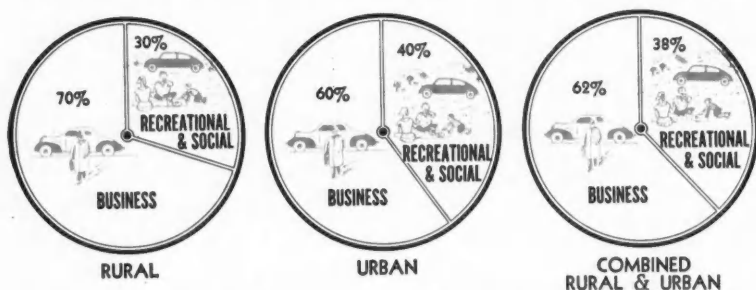
Principal Routes Shown in Color Approximate Lines of a
Proposed Inter-Regional Highway System

Width of Shaded Lines Indicates Extent of Traffic in 1937



Source: "Toll Roads and Free Roads," a Report by the U. S. Bureau of Public Roads to the Congress of the United States, May, 1939.

62% of Passenger Car Mileage Used On Business



The chart shown above is based on preliminary data from state-wide highway planning surveys conducted by the U. S. Bureau of Public Roads in cooperation with state highway departments.

Percent Automotive to Total Patents Issued



Number of Patents Issued Declining in Recent Years In General It Takes 2 to 3 Years for An Application to Become a Patent

	Total Patents Issued ¹	Auto- motive Total ²	% Auto- motive		Total Patents Issued ¹	Auto- motive Total ²	% Auto- motive
1899.....	25,435	3,681	14.5	1919.....	38,395	9,788	25.5
1900.....	26,418	3,451	13.1	1920.....	39,649	10,146	25.6
1901.....	27,292	3,250	11.9	1921.....	41,162	11,642	28.3
1902.....	27,776	3,288	11.8	1922.....	39,771	10,268	25.8
1903.....	31,582	4,006	12.7	1923.....	40,831	10,982	26.9
1904.....	30,824	3,578	11.6	1924.....	45,265	9,167	20.2
1905.....	30,270	3,682	12.2	1925.....	49,274	9,370	19.0
1906.....	31,806	3,850	12.1	1926.....	47,352	9,034	19.1
1907.....	36,469	4,996	13.7	1927.....	44,118	8,624	19.5
1908.....	33,514	4,854	14.5	1928.....	45,564	8,941	19.6
1909.....	37,261	6,184	16.6	1929.....	48,191	9,336	19.3
1910.....	35,807	5,915	16.5	1930.....	47,955	9,118	19.0
1911.....	33,927	7,289	21.5	1931.....	54,703	11,911	21.8
1912.....	37,573	7,073	18.8	1932.....	56,417	11,552	20.5
1913.....	35,624	6,713	18.9	1933.....	51,197	10,679	20.8
1914.....	41,660	7,296	17.5	1934.....	47,350	9,468	20.0
1915.....	44,752	6,221	13.9	1935.....	44,504	8,334	18.7
1916.....	45,729	10,352	22.6	1936.....	44,349	7,905	17.9
1917.....	42,581	9,335	21.9	1937.....	42,832	7,264	17.0
1918.....	39,776	10,380	26.1	1938.....	43,103	8,268	19.2

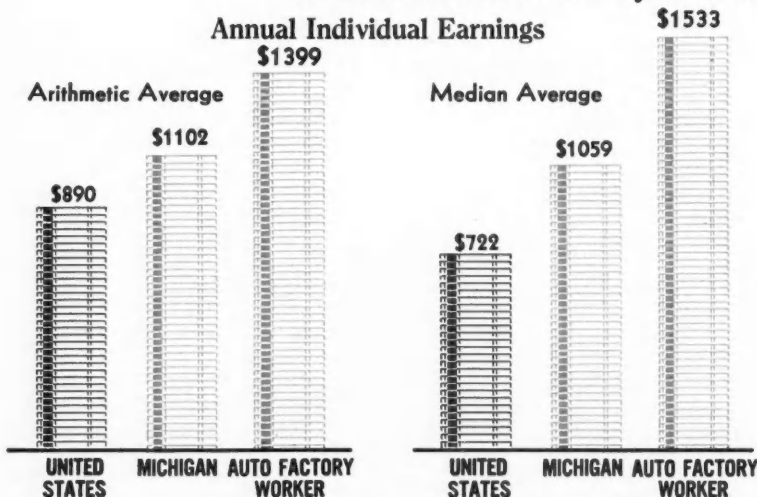
Total 1899
to 1938.. 1,608,058 307,191 19.1%

¹—Source: Patent Office Gazette, figures include design patents, but not patents for plants or reissue patents.

²—Represents patents selected for Research Library, Automobile Manufacturers Association, relating to motor vehicles, their mechanical design, esthetic design, manufacture, repair parts, accessories, lubricants and fuels, as well as special machines and processes for making all or any of same.

Automobile Factory Workers R

Annual Individual Earnings



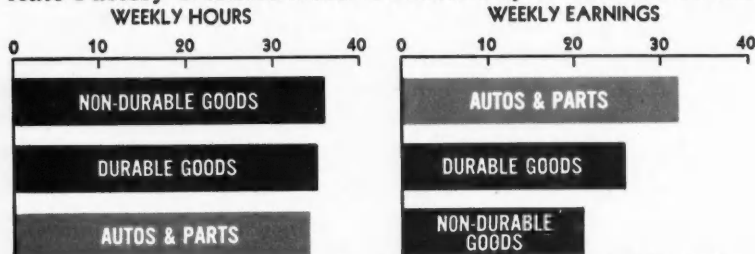
The averages for United States and Michigan are from the Social Security Board and cover the latest period for which the data are available (1937). The averages for automobile factory workers are compiled by the Automobile Manufacturers Association.

These annual earnings represent the actual wage records of all individual hourly paid factory workers including those working a short time and those who lost time due to instability of employment or personal disability. The data refer to the earnings of individual workers and are lower than the family income figures presented on page 45 which included earnings of multiple wage earners as well as non-wage income.

The data presented above are biased against the auto factory workers, since the averages of automobile workers are figured on the basis of single jobs, i.e., the earnings of an employee who changes employers during the year are recorded as earnings of two or more individuals, and so reduces the over-all average. The Social Security data include earnings from all taxable employment, whether from one job or several.

The automobile factory figures are also biased adversely by the fact that they include only hourly paid factory workers, while the U. S. and Michigan averages cover all wage earners including clerical, professional, and executive classifications with annual incomes up to \$3,000.

Auto Factory Workers Receive Better Pay for Shorter Hours



Weekly averages per individual worker for 12 months ending March 31, 1939 from U. S. Monthly Labor Review.

Receive High Annual Incomes

Detroit and Flint Lead Cities Surveyed

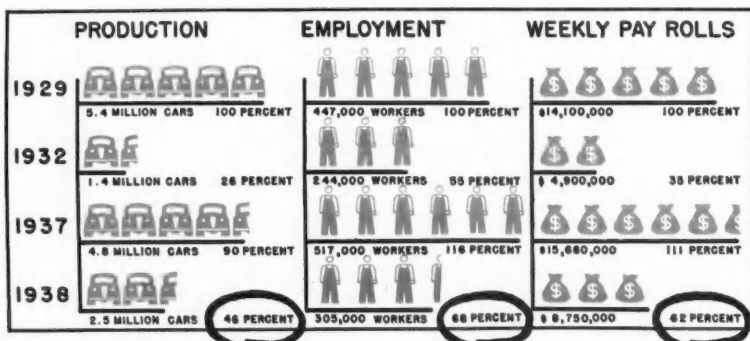
Based on Percent of All Families Having Incomes Above the Minimum Standard of Health and Decency



Chart is based on latest data available

Source: Family incomes from survey by U. S. Public Health Service. Basic budget requirements from a study by the Works Progress Administration entitled "Inter-City Differences in the Cost of Living," 1936. Flint budget estimated from private survey.

1938 Automobile Factory Employment and Payrolls Held Better Than Production



(Reproduced from "Monthly Labor Information Bulletin" U. S. Dept. of Labor)

Employment, Earnings, and Purchasing Power All Wage Earners in Automobile, Auto Body, and Parts Factories

	All Factory Wage Earners		Individual Worker Averages				
	Average Employment (000) ¹	Weekly Payrolls (000) ¹	Weekly Earnings ²	Cost of Living ³	Weekly Purchasing Power ⁴	Hourly Earnings ⁵	Hours Per Week ⁶
1899.....	2	\$25	\$12.50	.....	.....	.....	.....
1904.....	12	138	11.50	.....	.....	.....	.....
1909.....	76	936	12.30	.....	.....	.....	.....
1914.....	127	1,960	15.40	56.0	86.0	.....	.....
1919.....	343	9,445	27.50	100.6	85.5	.....	.....
1921.....	213	6,130	28.80	104.8	85.9	.....	.....
1922.....	.....	.....	.....	97.0	.....	65.7	.....
1923.....	405	12,694	31.30	99.1	98.8	.....	.....
1924.....	377	11,432	30.30	99.5	95.2	.....	.....
1925.....	426	13,728	32.20	101.4	99.3	72.3	45
1926.....	422	13,224	31.30	102.0	96.0	.....	.....
1927.....	370	11,773	31.80	99.6	99.8	.....	.....
1928.....	435	14,372	33.00	98.1	105.2	75.0	44
1929.....	448	14,082	31.40	98.2	100.0	.....	.....
1930.....	323	8,290	25.70	95.2	84.4	72.4	35
1931.....	286	6,738	23.60	85.3	86.5	.....	.....
1932.....	244	4,896	20.10	75.3	83.5	62.8	32
1933.....	244	4,833	19.80	71.3	86.8	59.9	33
1934.....	381	8,605	22.60	74.6	94.7	69.7	32
1935.....	445	11,293	25.40	77.6	102.3	73.6	35
1936.....	459	12,971	28.30	79.7	111.0	76.8	37
1937.....	517	15,659	30.30	83.0	114.2	88.5	34
1938.....	306	8,744	28.60	82.0	109.1	92.2	31

¹—1899-1921 from U. S. Census of Manufactures. 1923 on, from U. S. Bureau of Labor Statistics: Indexes times base figures from BLS Bulletin #610.

²—Weekly Payrolls divided by Average Employment.

³—Special index prepared by U. S. Bureau of Labor Statistics for automotive cities. Prior to 1925, data are estimates by Automobile Mfrs. Assn. based on BLS indexes. 1923-25 = 100.

⁴—Weekly Earnings divided by Cost of Living. 1929 = 100.

⁵—From U. S. Bureau of Labor Statistics. Data prior to 1933 are from their special studies. From 1933 on, figures are averages of monthly reports regularly compiled since Oct. 1932.

⁶—Weekly earnings divided by hourly rate.

Millions Employed in Motor Transport

6,380,000 Employed Directly and Indirectly in 1938

One Seventh of All Workers for Pay

State	Motor-Veh., Parts & Tire Mfg. Petrol. Ref'ng. ¹	Sales, Serv- icing ²	Fed. and State Roads ³	Truck Drivers ⁴	Bus Drivers ⁵	Total
Alabama.....	162	12,855	6,138	42,267	3,176	64,598
Arizona.....	.....	4,436	1,434	19,801	1,014	26,685
Arkansas.....	600	10,103	2,075	41,773	1,565	56,116
California.....	28,892	82,609	7,665	282,574	7,278	409,018
Colorado.....	135	11,915	4,499	18,162	2,500	37,211
Connecticut.....	1,391	14,837	3,307	58,404	2,855	80,794
Delaware.....	.....	2,413	744	8,314	391	11,862
Florida.....	114	18,293	3,164	63,187	2,623	87,381
Georgia.....	855	20,730	7,722	63,018	3,496	95,821
Idaho.....	.....	4,504	1,794	20,538	464	27,300
Illinois.....	15,669	59,569	9,329	207,365	4,488	296,420
Indiana.....	45,685	30,353	5,428	101,533	9,043	192,042
Iowa.....	287	27,779	4,408	59,524	3,098	95,096
Kansas.....	4,212	22,388	4,442	70,444	1,204	102,690
Kentucky.....	1,032	14,200	6,026	61,703	2,224	85,185
Louisiana.....	5,462	13,048	3,921	72,521	3,624	98,576
Maine.....	.....	7,509	4,697	31,869	603	44,678
Maryland.....	1,525	12,740	2,861	43,765	1,762	62,653
Massachusetts.....	2,072	33,671	3,638	104,321	6,974	150,676
Michigan.....	325,884	48,105	5,486	117,584	5,297	502,356
Minnesota.....	1,276	28,120	7,646	87,773	2,602	127,417
Mississippi.....	.....	8,274	8,998	38,021	5,040	60,333
Missouri.....	9,915	36,918	5,197	123,298	5,279	180,607
Montana.....	524	5,593	1,430	22,942	828	31,317
Nebraska.....	.....	15,489	3,442	40,095	1,179	60,205
Nevada.....	.....	1,251	800	6,979	348	9,378
New Hampshire.....	.....	4,503	7,259	18,824	414	31,000
New Jersey.....	19,653	30,665	2,837	132,475	10,913	196,543
New Mexico.....	152	3,622	1,551	19,819	1,166	26,310
New York.....	25,713	93,163	9,758	302,983	20,866	452,483
North Carolina.....	361	22,195	8,127	64,891	5,207	100,781
North Dakota.....	.....	5,992	1,851	17,140	766	25,749
Ohio.....	96,501	64,362	9,099	149,170	12,379	331,511
Oklahoma.....	6,173	22,422	4,296	67,119	3,472	103,482
Oregon.....	263	11,449	2,561	44,220	1,961	60,454
Pennsylvania.....	34,777	71,840	44,334	225,843	9,608	386,402
Rhode Island.....	53	5,552	981	19,838	792	27,216
South Carolina.....	96	10,624	4,403	37,817	1,753	54,693
South Dakota.....	.....	6,662	2,385	13,518	582	23,147
Tennessee.....	218	17,067	4,378	54,988	2,997	79,648
Texas.....	25,023	60,908	16,180	285,625	9,552	397,288
Utah.....	.....	5,164	2,239	19,642	855	27,900
Vermont.....	.....	3,360	1,294	3,041	549	8,244
Virginia.....	131	17,506	10,542	50,163	3,614	81,956
Washington.....	315	17,629	3,344	68,382	3,665	93,335
West Virginia.....	571	10,178	5,651	42,105	2,269	60,774
Wisconsin.....	21,524	25,770	6,863	70,575	3,042	127,774
Wyoming.....	1,402	2,730	1,103	12,714	1,257	19,206
Dist. of Col.....	.....	7,122	407	16,289	1,271	25,089
Unsegregated.....	34,993	95,699*	.....	.....	.....	130,692

U. S. Total..... 713,611 1,163,886* 267,734 3,544,956 177,905 5,868,092
Total, incl. raw material workers and others not segregated by states.. 6,380,000*

*Includes 1,349 wholesale workers and 94,350 bulk tank station employees which were not segregated by states. —From 1937 Census of Manufactures, latest available.

—These are the 1935 Census of American Business figures marked up 3½ per cent, which was the national general retail trade index improvement in 1938 over 1935.

—Average monthly employment from U. S. Bureau of Public Roads. Employment on county and town-ship roads is not available.

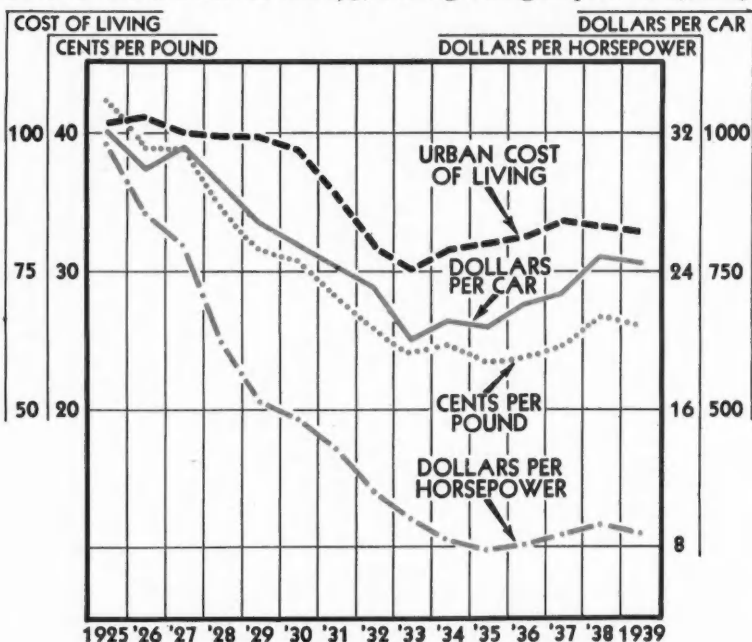
—Estimated by allowing 1.14 full-time drivers (the national average) per truck registered, exclusive of farm trucks.

—Estimated by allowing two drivers per revenue bus and one driver per school bus according to the Bus Census made by "Bus Transportation."

—Includes employees producing raw materials, taxi-drivers and chauffeurs, and automobile insurance and finance company employees.

Trends in Automobile Prices and Direct Operating Costs

Price Per Car Decreased 24%, Disregarding Improved Quality



Retail Passenger Car Price Averages Per Car, Pound and Horsepower

Average Retail Passenger Car Prices					Average Retail Passenger Car Prices				
Year	Per Car	Per Pound	Urban Cost of Living (1923-25 = 100)		Year	Per Car	Per Pound	Urban Cost of Living (1923-25 = 100)	
			Per Horsepower					Per Horsepower	
1925.	\$1,007	\$.427	\$31.5	101.8	1933.	\$630	\$.242	\$9.6	75.8
1926.	943	.391	27.6	102.6	1934.	664	.247	8.4	78.6
1927.	977	.393	25.6	100.6	1935.	658	.236	7.8	80.7
1928.	911	.352	20.1	99.5	1936.	687	.238	8.0	81.6
1929.	843	.321	16.7	99.5	1937.	704	.245	8.6	84.3
1930.	798	.307	15.5	97.0	1938.	779	.267	9.3	83.0
1931.	767	.286	13.8	88.6	1939†	766	.262	9.0	82.0
1932.	723	.261	11.4	79.8					

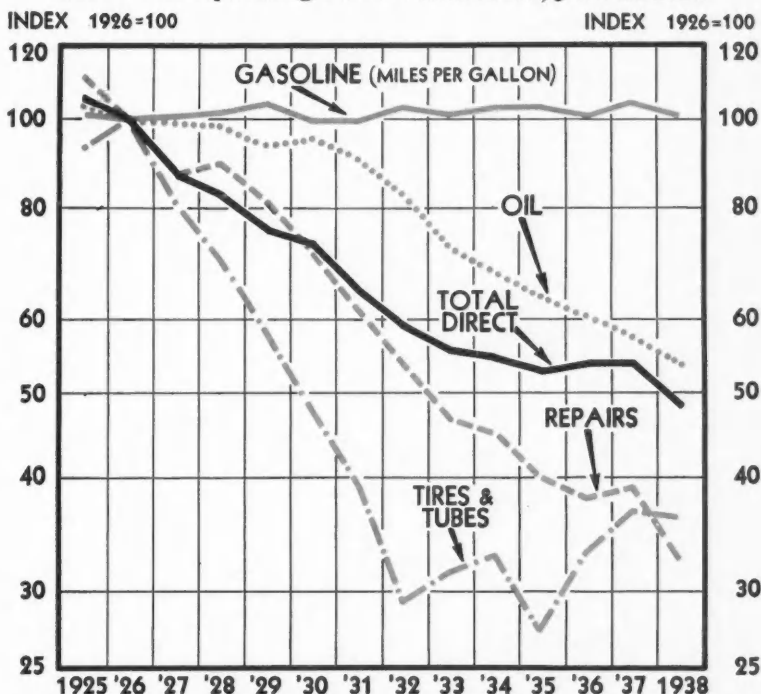
Average Prices are based on the delivered price at factory (including standard equipment and federal taxes) of the cheapest 4 or 5 passenger closed model of each make and are weighted by the relative total number of new car registrations of each make. Delivered price prior to 1936 computed from ratio of factory list price to delivered price in 1936 and 1937.

Urban Cost of Living, all U. S. Cities—from U. S. Bureau of Labor Statistics.

† March, 1939. † Prices based on sales from November 1937 through February 1939.

Operating Costs Mainly Down Since 1925

Direct Car Operating Costs Reduced 50% Since 1926



These data do not include fixed or indirect operating costs such as depreciation, insurance, garaging, license fees.

Direct Operating Cost Indexes Per Mile Based on Records of Ten Large Fleets of Light Passenger Cars

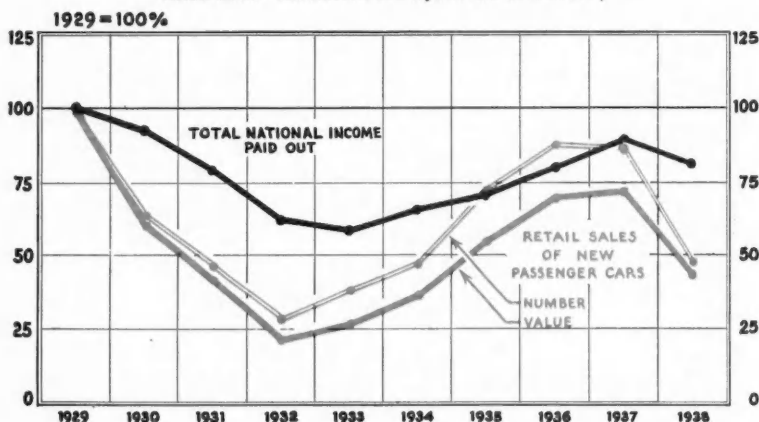
	COST PER MILE			Gasoline Miles Per			COST PER MILE			Gasoline Miles Per	
	Total & Direct ¹	Tires & Tubes	Re-pairs	Oil	Gallon		Total & Direct ¹	Tires & Tubes	Re-pairs	Oil	Gallon
1925.....	105	93	112	104	101	1932.....	59	29	54	83	103
1926.....	100	100	100	100	100	1933.....	56	31	47	73	101
1927.....	88	82	88	99	101	1934.....	55	33	45	68	103
1928.....	83	70	90	98	102	1935.....	53	27	40	64	103
1929.....	76	58	82	94	104	1936.....	54	33	38	61	101
1930.....	74	48	72	96	100	1937.....	54	37	39	58	104
1931.....	65	39	62	91	100	1938.....	48	36	33	54	101

¹—Gasoline, Oil, Tires and tubes, and Repairs only.

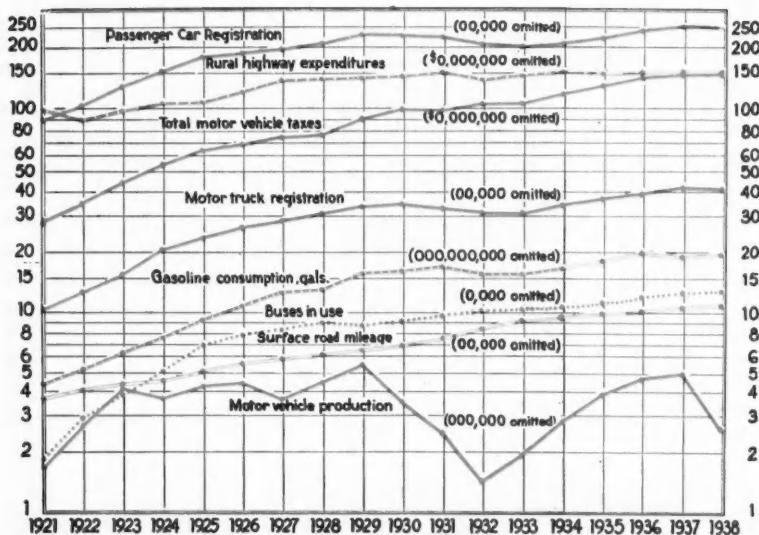
²—Note that gasoline is the only series not on a cost per mile basis. This series includes those fleets which reported gasoline cost as well as those reporting consumption. Average gasoline prices in 50 cities, published by the American Petroleum Institute, were used in reducing dollar costs to gallons before combining. Indexes are cumulated geometric averages of link relatives. This was considered the most practical type of average, as all fleets did not report figures for all years. Only 5 fleets had comparable data to 1926.

1938 Retail Automobile Sales Lag Behind National Income Relative to 1929

(Source: National Income—Department of Commerce;
Retail Sales—Automobile Manufacturers Association)



Highway Transportation Nearly Equals 1937



1938 Export Summary

Foreign sales of motor vehicles of U. S. design 492,028

	Passenger Cars	Trucks	Total
U. S. Exports and Foreign assemblies }	190,156	135,786	325,942
Canadian Output . .	123,761	42,325	166,086
Total	313,917	178,111	492,028

Percent of American production sold outside the
United States (Including sales in Canada):

Cars	14.8%
Trucks	33.5%
Total	18.5%

World production of motor vehicles 4,001,566

	Motor Vehicles	% Decrease under 1937
United States and Canada . . .	2,655,721	47%
All other countries	1,346,375	1.5%

Value of United States and Canadian exports
(including tires, parts and accessories) \$314,575,091

	Number Cars and Trucks	Value including Repair Parts and Tires
United States . . .	326,492	\$281,755,690
Canada	56,958	\$ 32,819,401

Rank among United States exports of manufac-
tured products First

Leading export market (excepting Canada):

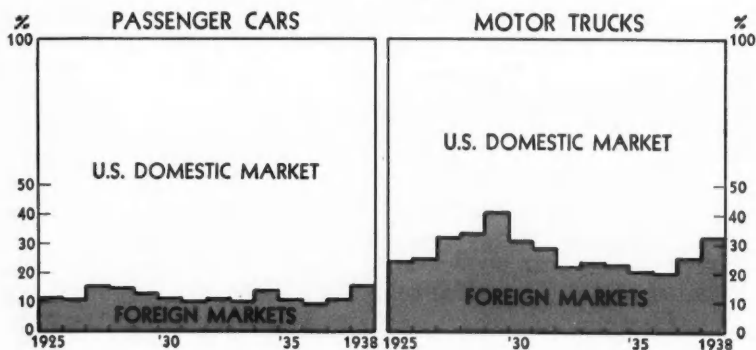
Passenger Cars	Union of South Africa
Motor Trucks	Argentina

Motor vehicles imported into U. S. A. New 580

World registration 43,297,587

U. S. registration (29,485,680), percent of world. 68%

Foreign Markets Take One Out of Every Three Trucks and Seven Cars in 1938



19% of American Cars Sold Outside United States

Year	Passenger Cars	Motor Trucks	Total	Year	Passenger Cars	Motor Trucks	Total
1929..	13.8%	41.4%	17.7%	1934..	12.2%	25.1%	14.9%
1930..	12.7%	31.5%	15.9%	1935..	10.2%	22.1%	12.3%
1931..	9.8%	28.8%	13.1%	1936..	9.0%	20.6%	11.0%
1932..	10.4%	23.4%	12.6%	1937..	10.4%	27.2%	13.6%
1933..	9.3%	25.2%	12.2%	1938..	14.8%	33.5%	18.5%

Foreign Sales of American Motor Vehicles

Year	PASSENGER CARS			MOTOR TRUCKS			TOTAL MOTOR VEHICLES		
	U. S. Ex-ports Inc. Foreign Assemblies*	Canadian Output	Total Cars	U. S. Ex-ports Inc. Foreign Assemblies*	Canadian Output	Total Trucks	U. S. Ex-ports Inc. Foreign Assemblies*	Canadian Output	Total Motor Vehicles
1926...	289,135	166,887	456,022	104,309	37,840	142,149	393,444	204,727	598,171
1927...	331,959	146,421	478,380	137,509	32,533	170,042	469,468	179,054	648,522
1928...	418,845	197,848	616,693	163,919	44,206	208,125	582,764	242,054	824,818
1929...	451,079	203,307	654,386	283,132	59,318	342,450	734,211	262,625	996,836
1930...	247,764	121,337	369,101	157,951	32,035	189,986	405,715	153,372	559,087
1931...	134,048	65,072	199,120	107,509	17,487	124,996	241,557	82,559	324,116
1932...	72,889	50,694	123,583	47,350	10,095	57,445	120,239	60,789	181,028
1933...	98,155	53,849	152,004	78,428	12,003	90,431	176,583	65,852	242,435
1934...	184,156	92,647	276,803	126,366	24,205	150,571	310,522	116,852	427,374
1935...	210,367	135,562	345,929	124,474	37,315	161,789	334,841	172,877	507,718
1936...	211,477	128,369	339,846	134,590	33,790	168,380	346,067	162,159	508,226
1937...	272,503	153,046	425,549	203,411	54,417	257,828	475,914	207,463	683,377
1938...	190,156	123,761	313,917	135,786	42,325	178,111	325,942	166,086	492,028

* Includes number of vehicles assembled abroad from parts produced in the United States. These foreign assemblies are also included in the factory sales figures compiled by the U. S. Census Bureau.

66% of World Automobile Production in United States and Canada

Source: Automotive-Aeronautics Trade Division, Bureau of Foreign & Domestic Commerce

	1937			1938		
	Passenger Cars	Trucks and Buses	Total	Passenger Cars	Trucks and Buses	Total
United States.....	3,915,889	893,085	4,808,974	2,000,985	488,100	2,489,085
Canada.....	153,046	54,417	207,463	125,761	42,325	166,086
Sub-total.....	4,068,935	947,502	5,016,437	2,124,746	530,425	2,655,171
Austria.....	4,820	1,223	6,043	(2)	(2)	(2)
Belgium.....	1,750	633	2,383	1,464	201	1,665
Czechoslovakia....	12,186	1,627	13,813	11,400	1,600	13,000
Denmark.....	.....	250	250	.....	303	303
Finland.....	.....	144	144	.....	180	180
France.....	176,958	24,976	201,934	189,691	25,298	214,989
Germany.....	267,652	64,242	331,894	276,592	75,777	352,369
Hungary.....	120	495	615	237	553	790
Italy.....	61,366	16,374	77,740	58,966	11,175	70,141
Japan.....	5,150	9,280	14,430	8,500	15,600	24,100
Netherlands.....	.....	40	40	.....	.....	.....
Poland.....	1,500	700	2,200	2,100	820	2,920
Spain.....	X	X	X	X	X	X
Sweden.....	1,796	4,830	6,626	2,132	4,914	7,046
Switzerland.....	.....	690	690	.....	600	600
United Kingdom....	389,633	118,116	507,749	342,390	105,171	447,561
U. S. S. R.....	18,176	180,947	199,123	26,975	183,756	210,731
Sub-Total.....	941,107	424,567	1,365,674	920,447	425,948	1,346,395
Grand Total....	5,010,042	1,372,069	6,382,111	3,045,193	956,923	4,002,116

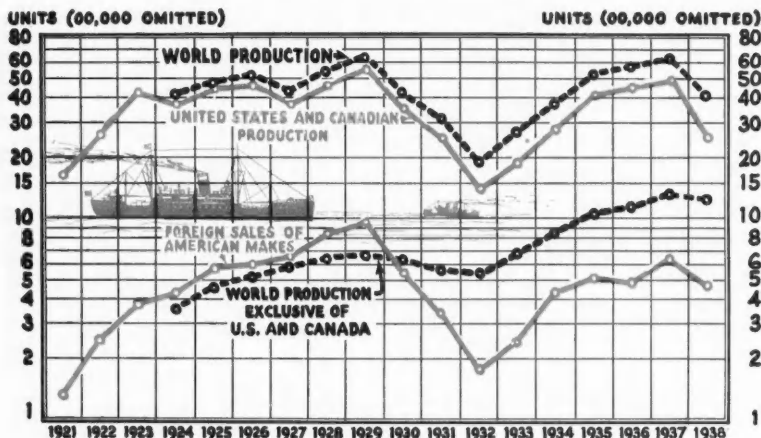
—Year ending Sept. 30. 2—Included with Germany. X—Not available.

World Motor Vehicle Registrations Set Record†

Dec. 31	Outside United States	% Gain Yearly	United States	% Gain Yearly	World Total	% Gain Yearly	U. S. % of World
1916....	719,246	..	3,512,996	44	4,232,242	..	83
1919....	1,286,948	..	7,565,446	23	8,852,394	..	85
1920....	1,710,983	33	9,231,941	22	10,942,924	24	84
1921....	2,190,609	28	10,463,295	13	12,653,904	15	83
1922....	2,433,737	11	12,238,375	17	14,672,112	16	83
1923....	2,931,407	21	15,092,177	23	18,023,584	23	84
1924....	3,715,735	27	17,595,373	17	21,311,108	18	83
1925....	4,537,973	22	19,937,274	13	24,475,247	15	81
1926....	5,512,933	22	22,001,393	10	27,514,326	12	80
1927....	6,425,316	17	23,133,243	5	29,558,559	7	78
1928....	7,404,651	15	24,493,124	6	31,897,775	8	77
1929....	8,473,948	14	26,501,443	8	34,975,391	10	76
1930....	9,108,234	8	26,545,281	0.16	35,653,515	2	74
1931....	9,277,044	1.9	25,832,884	-2.5	35,109,928	-1.5	73
1932....	9,251,275	-2	24,115,129	-6.7	33,366,404	-5	72
1933....	9,505,032	2.8	23,874,232	-1.0	33,379,264	-0.04	72
1934....	10,191,521	7.0	24,951,662	4.6	35,143,183	5.3	71
1935....	11,072,488	8.6	26,227,276	5.1	37,299,764	6.1	70
1936....	12,039,608	8.7	28,165,550	7.4	40,205,158	7.8	70
1937....	13,037,338	8.3	29,705,220	5.5	42,742,558	6.3	70
1938....	13,811,907	6.0	29,485,680	-0.7	43,297,587	1.3	68

†For tabulation by countries see pages 86-88.

American Sales Abroad Compared With Foreign Makes



Motor Vehicle Exports from Producing Countries

Source: Automotive-Aeronautics Trade Division, Bureau of Foreign & Domestic Commerce

	Production		Exports		Percent of Production Exported	
	1937	1938	1937	1938	1937	1938
United States	4,808,974	2,489,085	\$395,199	\$276,657	8.2%	11.1%
Canada	207,463	166,086	65,867	57,909	31.8%	34.9%
Sub-Total	5,016,437	2,655,171	\$461,066	\$334,566	9.1%	12.6%
Austria	6,043	(²)	1,527	(²)	25.2%	.....
Belgium	2,383	1,665	252	147	10.5%	8.8%
Czechoslovakia	13,813	13,000	2,067	\$1,579	14.9%	12.2%
Denmark	250	303	.....	.....	.....	.....
Finland	144	180	4	.....	2.7%	.....
France	201,934	214,989	25,116	23,785	12.4%	11.1%
Germany	331,894	352,369	68,246	78,011	20.5%	22.1%
Hungary	615	790	.....	.....	.....	.....
Italy	77,740	70,141	33,337	20,148	42.8%	28.6%
Japan	14,430	24,100	\$3,316	\$2,118	22.9%	8.8%
Netherlands	40	.....	\$1,013	\$240	.....	.....
Poland	2,200	2,920	\$14.9	\$37.4	.....	.....
Spain . . . . .	.....	.....	.....	.....	.....	.....
Sweden	6,626	7,046	74,417	74,606	66.6%	65.4%
Switzerland	690	600	102	135	14.5%	22.5%
United Kingdom	507,749	447,561	98,509	82,541	19.5%	18.4%
U. S. S. R.	199,123	210,731	3,066	\$850	1.5%	0.4%
Sub-Total	1,365,674	1,346,395	240,972	214,160	17.7%	15.9%
Grand Total	6,382,111	4,001,566	702,038	548,726	11.0%	13.7%

* Not available. ²—Included with Germany. ³—Foreign assemblies declared as "parts for assembly" are not included. ⁴—Includes units assembled in Japan and some cycle cars. ⁵—Includes used vehicles and units assembled in Netherlands. ⁶—Metric tons. ⁷—Includes units assembled in Sweden. ⁸—First 6 months only. ⁹—First 9 months only.

Reciprocal Trade Agreements Reduce Trade Barriers

Reductions in barriers to automobile export trade have been obtained in a substantial number of trade agreements negotiated by the United States Government since 1934. As of June, 1939 there were twenty agreements in effect.

1. Tariff Reductions

Reductions in foreign tariffs against automobiles were made in agreements with the following countries: Cuba, Belgium, Brazil, Canada, Colombia, France, Czechoslovakia (now inoperative), Ecuador, Turkey, and various British Colonies.

2. Greater Quotas

The following countries enlarged the quota on automobiles under the terms of trade agreements: Switzerland, France and Czechoslovakia (now inoperative).

3. "Bound" Duties

Tariff duties on automobiles were "bound" under trade agreements with the following countries (A "bound" duty is frozen at existing levels, which in the following countries were low, and which is not to be increased for the life of the agreement): Haiti, Sweden, Netherland, Switzerland, Honduras (on free list), Guatemala (surtaxes eliminated also), France (certain parts), and the United Kingdom.

Value of Automotive Exports—U. S. and Canada

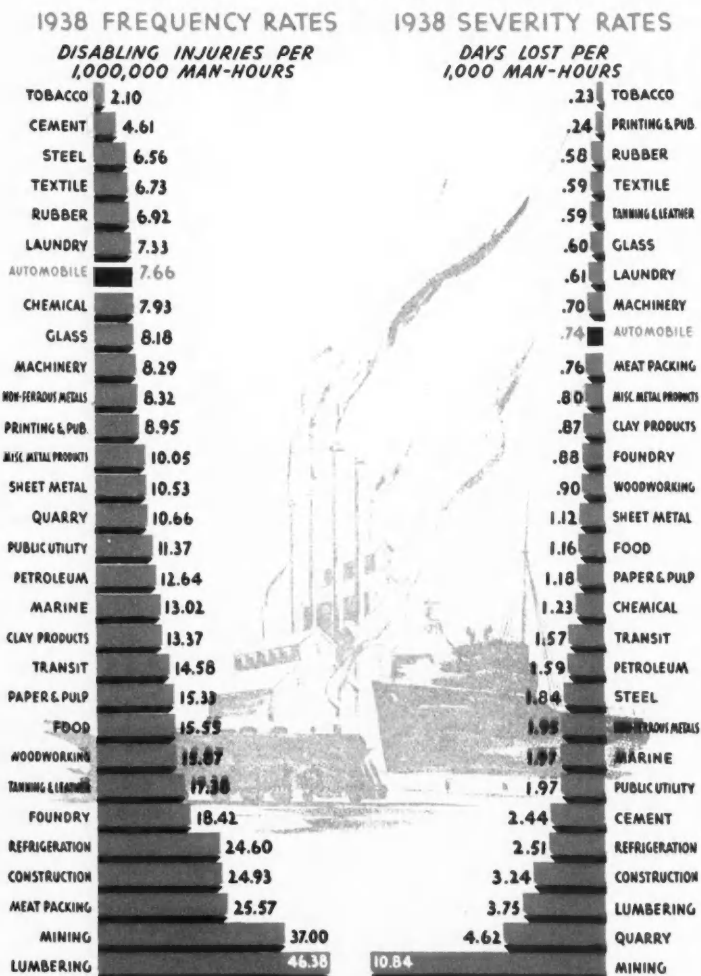
	1934	1935	1936	1937	1938
Passenger Cars					
United States ¹	\$80,604,563	\$99,342,411	\$107,483,285	\$140,638,203	\$104,628,982
Canada.....	12,988,365	16,885,736	15,289,140	15,921,282	15,311,201
Motor Trucks					
United States ¹	45,125,359	51,995,938	56,765,713	102,889,939	74,451,986
Canada.....	4,215,429	6,082,846	4,904,102	7,941,782	6,924,273
Parts and Accessories					
*United States ¹	48,883,430	65,249,041	62,194,222	92,845,913	87,460,282
Canada.....	2,415,222	2,925,667	2,899,946	2,919,981	2,679,265
Tires, Rubber					
United States ¹	13,521,185	13,037,446	13,039,343	15,098,468	15,214,440
Canada.....	6,537,760	6,986,037	7,342,312	9,477,699	7,904,662
Total					
United States.....	\$188,134,537	\$229,624,839	\$239,482,563	\$351,472,523	\$281,755,690
Canada.....	26,156,776	32,880,286	30,435,500	36,260,744	32,819,401
Grand Total.....	\$214,291,313	\$262,505,122	\$269,918,063	\$387,733,267	\$314,575,091

* Parts, and engines for assembly from 1936 to date, shipped to Canada for assembly have been deducted, but other "parts for assembly" shipped to other countries have been included.

¹—Includes shipments to non-contiguous territories.

Automobile Factory Safety Record Compared With Other Industries

1938 Accident Frequency Rate Declined 32%, Severity
Rate 4% Below 1937 in Automobile Factories



(Source: Reports of industrial establishments to the National Safety Council)

Traffic Accidents Reduced in 1938

S
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Y

Thousands of lives and millions of dollars have been saved in recent years from the drive for highway safety in which a dozen national organizations and innumerable state and local groups of officials and civilians have united.

F
A
C
T
S

In 1938, 39 states and 307 cities had safety records surpassing or equalling those of previous years.

Concentration upon the problem of reducing traffic accidents during the last three years has resulted in a reduction of the death rate from 17.4 per 100,000,000 vehicle miles in 1935 to less than 12 in 1938. There were 15,000 fewer lives lost and 425,000 less people injured. As against the preceding year, 1938 showed a reduction of 21 per cent in traffic fatalities or a saving of more than 8,000 lives in spite of a one per cent increase in the number of vehicle miles traveled.

Seven states showed a reduction in traffic deaths of 30 per cent or more and twelve others had a reduction of at least 20 per cent.

More effective legislation was largely responsible for the improved safety record. Forty-four states now have driver-licensing laws.

All cities reporting to the National Safety Council had an average reduction in traffic deaths of 23 per cent.

In 17 cities where accident prevention bureaus have been installed by the International Association of Chiefs of Police there was an average reduction in traffic deaths of 33 per cent. The same average reduction was achieved in cities where the National Safety Council has organized active safety councils with a full time manager. Cities having both accident prevention bureaus and organized safety councils averaged 40 per cent in their reduction of highway deaths.

Three state safety organizations formed in 1938 make a total of 40 states with some form of safety organization.

All 48 states and 1163 cities competed in the National Traffic Safety Contest.

An estimated 5000 high-schools in 33 states are teaching safety education to nearly half of the high school students in the United States.

Forty-two states were represented at five parent-teachers regional conferences where specific state safety problems were discussed and more than 10,000 local parent-teacher associations carried on safety activities in 1938.

In forty 1938 summer courses held at leading universities 1700 teachers were trained to give high-school driver-training courses.

The first annual National Institute for Traffic Safety Training held at the University of Michigan, was attended by 145 persons from 37 states.

The Yale Bureau of Street Traffic Research graduated 22 traffic engineers making a total of 76 since the Bureau was started.

Nearly half a million copies of "Sportsmanlike Driving," first issued as a series of pamphlets by the American Automobile Association, now bound in text book form, were distributed to schools.

Forty-Five States Reduced Highway Deaths in Terms of Mileage Driven in 1938

(Source: National Safety Council)



New Jersey Safest State and Providence Safest City Winners in the Seventh National Traffic Safety Contest

All 48 states and 1163 cities competed last year in the Seventh National Traffic Safety Contest conducted annually by the National Safety Council. States were grouped geographically and cities by population.

WINNERS IN THE STATE CONTEST WERE:

*New Jersey	Eastern Division
Oklahoma	Southern Division
Iowa	Midwestern Division
Washington	Western Division
*Also National Grand Award winner.	

WINNERS IN INTER-CITY CONTEST WERE:

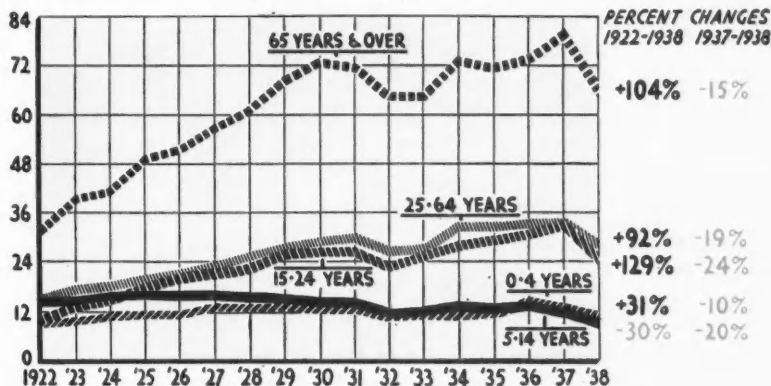
	POPULATION GROUP
Milwaukee, Wis. Cleveland, Ohio }	Group I (over 500,000)
**Providence, R. I.	Group II (250,000-500,000)
Trenton, N. J.	Group III (100,000-250,000)
Saginaw, Mich.	Group IV (50,000-100,000)
Waukegan, Ill.	Group V (25,000-50,000)
Mason City, Ia.	Group VI (10,000-25,000)

**Also Grand Prize winner for cities of all sizes.

All Ages Reduce Fatalities in 1938

(Source: National Safety Council estimates based on U. S. Census Bureau data and State reports for 1938)

Deaths per 100,000 Population



Automobile Insurance in the United States

(Compiled by The Insurance Year Book Service, The Spectator Company)

	Auto Liability	Auto Collision	Auto Property Damage	Auto Misc. ¹	Fire & Theft*	Totals
1930	Net Prem. \$211,489,945	\$17,791,868	\$82,328,124	\$75,880,042	\$136,994,230	\$524,484,209
	Losses Paid†.... 174,628,437	12,437,522	48,091,244	42,787,352	73,961,844	352,896,399
	Ratio..... 82.6	69.9	58.4	57.7	54.0	67.2
1931	Net Prem. 214,127,034	17,862,956	82,035,428	56,743,692	118,004,348	488,773,458
	Losses Paid†.... 153,311,197	12,246,219	44,676,498	27,691,416	70,146,994	308,072,324
	Ratio..... 71.6	68.6	54.5	48.8	59.4	63.0
1932	Net Prem. 188,731,449	11,871,922	57,926,942	49,791,326	79,982,832	388,304,471
	Losses Paid†.... 108,177,554	6,172,416	18,419,691	24,579,621	44,913,299	202,262,581
	Ratio..... 57.3	52.0	31.8	49.4	56.2	52.1
1933	Net Prem. 168,942,625	6,513,618	48,962,068	11,602,716	76,383,790	312,404,817
	Losses Paid†.... 115,465,198	3,702,038	21,128,942	5,942,402	39,892,285	186,130,865
	Ratio..... 68.3	56.8	43.1	51.2	52.2	59.6
1934	Net Prem. 227,982,550	11,493,404	64,656,866	14,046,215	92,641,495	410,820,530
	Losses Paid†.... 147,162,203	6,837,009	32,301,262	6,983,528	40,635,540	233,919,542
	Ratio..... 64.5	59.5	50.0	49.7	43.9	56.9
1935	Net Prem. 241,266,145	12,777,778	69,399,760	5,325,855	117,669,594	446,439,132
	Losses Paid†.... 156,945,788	8,014,455	29,507,235	2,441,203	44,984,020	241,892,701
	Ratio..... 65.1	62.7	42.5	45.8	38.2	54.2
1936	Net Prem. 273,681,782	16,024,909	79,879,342	6,725,767	182,915,621	559,227,421
	Losses Paid†.... 158,134,658	9,930,804	35,929,667	3,198,715	67,217,473	274,411,517
	Ratio..... 57.8	62.0	45.0	47.6	36.4	49.1
1937	Net Premiums.... 309,532,862	21,494,616	86,283,552	5,862,418	219,712,494	642,885,942
	Losses Paid†.... 157,351,850	14,137,226	41,304,145	2,561,299	102,624,167	317,978,687
	Ratio..... 50.84	65.77	47.87	43.69	46.71	49.46
1938	Net Premiums.... 295,536,184	20,206,356	83,400,654	6,782,001	192,144,671	598,069,866
	Losses Paid†.... 159,420,817	12,113,845	41,989,891	3,815,416	101,301,618	318,641,587
	Ratio..... 53.94	59.95	50.35	56.26	52.72	53.28

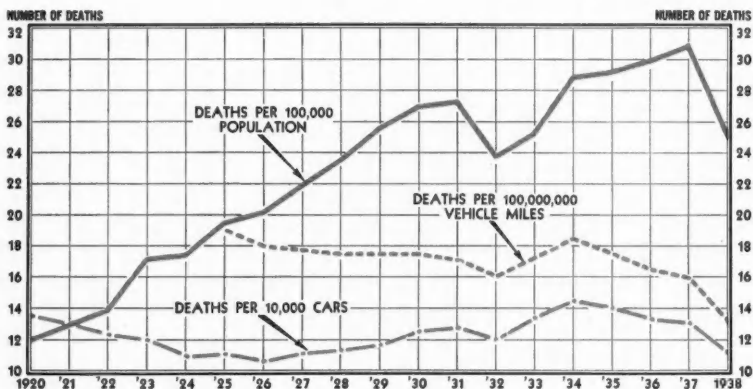
† Includes investigation and adjustment of claims but does not include agents' commissions, home office and operating expenses.

* Fire Insurance Companies transact all branches of automobile insurance with the exception of liability. A great portion of this business, however, is fire and theft insurance.

1—Representing automobile premiums and losses of casualty companies writing complete automobile coverage and of casualty companies which write fire, theft, earthquake and windstorm.

‡ Does not include "full coverage insurance on automobiles" by mutual companies and by reciprocal and Lloyds associations.

Fewer Fatalities In Terms of Mileage Traveled, 1938



1938 Motor Vehicle Fatalities Decline 18% Below 1937

(Source: "Accident Facts" by the National Safety Council)

YEAR	DEATHS FROM COLLISIONS WITH—								TOT. DEATH RATES		
	ALL DEATHS	Pedestrians	Other Motor Vehicles	Railroad Trains	Electric Cars	Bicycles and Horse-drawn Vehicles	Fixed Objects	Deaths from Non-Collision Accidents	Per 100,000 Population	Per 10,000 Mot. Vehicles	Per 100,000,000 Vehicle Miles
1927.....	25,796	10,820	3,430	1,832	520	820	1,090	7,280	21.8	11.1	17.7
1928.....	27,996	11,420	4,310	2,142	569	950	1,250	7,360	23.3	11.4	17.4
1929.....	31,215	12,250	5,400	2,046	530	990	1,570	8,430	25.7	11.7	17.3
1930.....	32,929	12,900	5,800	1,830	481	1,150	1,960	8,730	26.7	12.4	17.4
1931.....	33,675	13,370	6,820	1,714	435	900	2,590	7,850	27.1	13.0	17.0
1932.....	29,451	11,490	6,070	1,522	316	750	2,300	7,000	23.6	12.2	16.1
1933.....	31,363	12,840	6,470	1,437	318	710	2,680	6,900	24.9	13.2	17.1
1934.....	36,101	14,480	8,110	1,457	332	860	3,250	7,610	28.5	14.4	18.4
1935.....	36,369	14,350	8,750	1,587	253	700	3,130	7,600	28.5	13.9	17.4
1936.....	38,089	15,250	9,500	1,697	269	900	3,340	7,130	29.7	13.5	16.4
1937.....	39,643	15,500	10,320	1,810	264	900	3,750	7,100	30.7	13.3	15.9
1938 (est.).....	32,400	12,500	8,700	1,600	230	870	3,050	5,450	24.9	11.0	12.9

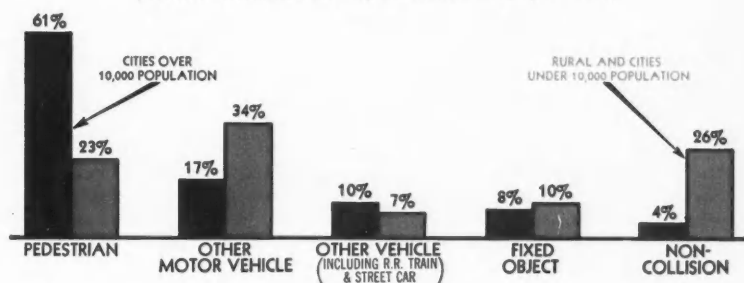
Percentage Changes

1927 to 1938...	+26%	+16%	+154%	-13%	-56%	+6%	+180%	-25%	+14%	-1%	-27%
1937 to 1938...	-18%	-19%	-16%	-12%	-13%	-3%	-19%	-23%	-19%	-17%	-19%

Source: U. S. Census Bureau for total deaths and deaths from collisions with railroad trains and electric cars, through 1937. All other death figures are National Safety Council approximations. U. S. Bureau of Public Roads for motor vehicle registration. American Petroleum Institute and U. S. Bureau of Public Roads for gasoline consumption, used for estimating vehicle mileage.

Pedestrian Fatalities Predominate in Cities, Collision in Country

(Source: "Accident Facts" by the National Safety Council)



Eighteenth Consecutive Monthly Decline from Previous Year's Fatalities

NUMBER OF FATALITIES AND RATE PER MILE DRIVEN
SHOW STEADY DECLINE SINCE OCTOBER 1937

(Source: National Safety Council)

	Motor Vehicle Deaths			Mileage Rates*		
	1937	1936	% Decrease	1937	1936	% Decrease
November.....	3,760	4,048	— 7%	18.1	20.6	—12%
December.....	3,740	4,217	—11%	19.7	22.6	—13%
	1938	1937		1938	1937	
January.....	2,740	3,110	—12%	16.0	19.1	—16%
February.....	2,140	2,500	—14%	13.3	16.1	—17%
March.....	2,340	2,810	—20%	11.8	14.4	—18%
April.....	2,250	2,590	—13%	11.0	12.8	—14%
May.....	2,380	3,130	—24%	11.0	14.1	—22%
June.....	2,310	3,000	—23%	10.2	13.0	—22%
July.....	2,720	3,480	—22%	11.6	14.2	—18%
August.....	2,860	3,780	—24%	11.6	15.6	—26%
September.....	3,070	3,650	—16%	13.7	15.9	—14%
October.....	3,280	4,090	—20%	14.8	18.8	—21%
November.....	2,880	3,760	—23%	13.9	18.1	—23%
December.....	3,430	3,740	—8%	16.6	19.7	—16%
	1939	1938		1939	1938	
January.....	2,470	2,740	—10%	13.6	16.0	—15%
February.....	1,880	2,140	—12%	11.1	13.3	—17%
March.....	2,040	2,340	—13%	9.9	11.8	—16%
April.....	2,210	2,250	—2%	**	11.0	**

*Mileage rate equals motor vehicle deaths per 100,000,000 miles.

**April mileage figures not available.

Progress in Uniform State Motor Vehicle Laws and Municipal Ordinances

Safety, economy and convenience in the use of motor vehicles require uniform as well as adequate regulation of traffic. Organized effort toward its accomplishment began with the formulation of a "Uniform Motor Vehicle Code," originally prepared in 1925-6 by the National Conference on Street and Highway Safety in cooperation with the National Conference of Commissioners on Uniform State Laws. This was reviewed and revised by the National Conference on Street and Highway Safety in 1930, 1934, and again in 1938.

The following organizations cooperated with the U. S. Department of Commerce in conducting the Conference: Bureau of Public Roads; Department of Agriculture; American Association of Motor Vehicle Administrators; American Automobile Association; American Mutual Alliance; American Railway Association; American Transit Association; Chamber of Commerce of the U. S.; Automobile Manufacturers Association; National Bureau of Casualty and Surety Underwriters; and National Safety Council.

In its present form the Uniform Code comprises five acts:

- I. Administration, Registration, Certificate of Title and Anti-theft Act.
- II. Operators' and Chauffeurs' License Act.
- III. Civil Liability Act.
- IV. Safety-Responsibility Act.
- V. Act Regulating Traffic on the Highways.

To supplement the foregoing recommended State Legislation, the first model municipal traffic ordinance was prepared in 1927-8 by the National Conference on Street and Highway Safety. It was also reviewed and revised by the Conference in 1930, 1934, and again in 1938.

In its latest form, it consists of three parts:

- I. Model Municipal Traffic Ordinance.
- II. Model Traffic Administrative Ordinance.
- III. State Law Provisions which Might be Included in the Traffic Ordinance.

The Model Traffic Ordinances, as prepared in 1934, have been adopted by a large number of cities and towns, both large and small, in all sections of the country. The Model Traffic Ordinance is sufficiently comprehensive to meet the needs of the largest cities, yet small cities may omit those provisions which are not appropriately applicable without destroying any of the essential elements of uniformity. Cities in states which have not adopted the Uniform Code Act V must consider the legality of the Model Ordinance provisions in the particular state.

The table on the following page shows those states whose laws contain substantial parts of the Uniform Vehicle Code.

Copies of the Uniform Code Acts and Model Ordinance may be secured from the American Association of Motor Vehicle Administrators, Louis R. Morony, Executive Director, 840 Woodward Bldg., Washington D. C.

States Whose Laws Accord with Model Code

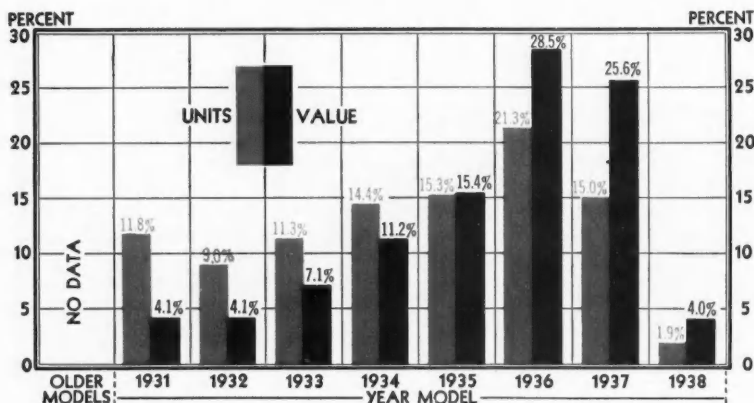
All States Have Some Part of Code Now

	ACT I		ACT II		ACT III		ACT IV		ACT V
	Regis- tration	Anti- Theft	Drivers' License		Civil Liabil- ity		Safety Respon- sibility		Traffic Regu- lation
Alabama.....			1935-39						
Arizona.....	1927	1927	*1927				1935		1927
Arkansas.....			1937						1937-39
California.....		19—	19—		Yes		19—		1927-29-31
Colorado.....	1931	19—	*1931		Yes		1935		1931
Connecticut.....			19—		Yes		19—		
Delaware.....	1929	1929	1929		Yes		19—		1929
Dist. of Col.....		1932	19—				1935		*1933
Florida.....		19—							
Georgia.....		19—	1937-39						1939
Idaho.....	1927	1927	1935		Yes		1939		1927
Illinois.....			1938		Yes		1938		1935
Indiana.....		19—	1929-37-39		Yes		19—-37		1939
Iowa.....	1937	1937	1931		Yes		19—-37		1937
Kansas.....			1931-37		Yes		1939		1937
Kentucky.....			1934-38				1938		1938
Louisiana.....	1928								1928
Maine.....			1927-37-39				19—		*1929
Maryland.....		19—	19—				19—		
Massachusetts.....			19—		Yes				
Michigan.....		19—	1927-31-37		Yes		19—		1927
Minnesota.....			1933-39		Yes		19—		1927-37
Mississippi.....			1938						1938
Missouri.....		19—	*1937						
Montana.....		19—	**1935		Yes		1937		1939
Nebraska.....			1929-37		Yes		19—		1931-37
Nevada.....	1931	1929	**1931		Yes				
New Hampshire.....			19—				19—		*1927
New Jersey.....			19—				19—		*1928
New Mexico.....	1929	1929	1937-39						1929
New York.....			19—		Yes		19—		1939
North Carolina.....	1927	19—	1935				19—		1927
North Dakota.....	1927	1927	*1935-37		Yes		1939		1927
Ohio.....			*1935		Yes		1935		
Oklahoma.....		19—	1937						
Oregon.....	1929	1929	1931		Yes		1935		1927-31
Pennsylvania.....	1927	1927	19—		Yes		19—		1927
Rhode Island.....			19—		Yes		19—		
South Carolina.....			1930						1937
South Dakota.....		19—			Yes		19—		1929
Tennessee.....			1929-37-39						1937
Texas.....			1935-37		Yes				
Utah.....		19—	1933-35						1931
Vermont.....			19—		Yes		19—		1939
Virginia.....	1926	1928	1932				19—		1926
Washington.....	1937	1937	1933		Yes		1939		1927-37
West Virginia.....		19—	1930-39				1935		
Wisconsin.....		19—	**1927-29				19—		*1929
Wyoming.....					Yes				

Notes: Figures in the columns indicate date of adoption except under Act III where the word "yes" indicates that the laws of those states include substantial features of the Uniform Motor Vehicle Civil Liability Act. Under Acts I and II 19— means the date of adoption antedated 1926 when the Code originated. Similarly under Act IV 19— means earlier than 1934. All states have some form of registration laws Under Act II * indicates little or no examination given. ** indicates no provision in law for examination. Under Act V * means only a small part of this Act was adopted. All states have some form of rules of the road and equipment laws.

Sales of 1936 Model Used Cars Largest

(Source: National Automobile Dealers Association)



Automobile Instalment Financing

(Figures from National Association of Sales Finance Companies)

Passenger & Commercial Vehicles							
Average Note Purchased	1929	1932	1933	1935	1936	1937	1938
New cars.....	\$595	\$546	\$516	\$550	\$580	\$593	\$630
Used cars.....	297	241	220	237	258	279	275
All cars.....	456	352	343	370	400	410	386
Average Loss Per Repossessed Car							
New cars.....	...	...	...	\$67	\$61	\$53	\$70
Used cars.....	...	...	...	53	49	52	58
All cars.....	63	59	42	55	51	52	62
Percentage of Repossessions							
New cars total.....	3.0	5.7	2.8	2.7	2.2	4.1	6.3
Used cars total.....	5.6	13.1	7.8	10.7	7.5	13.2	19.2
All cars.....	4.2	10.4	5.7	7.3	5.1	9.4	15.1
Skips Per 1,000 Transactions.....	5.2	5.5	4.6	2.4	2.6	1.7	5.8
Instalment Paper Ratios.....							
Over 12 months, new.....	...	...	...	62	72	78	72
Over 12 months, used.....	...	...	...	24	35	53	51
Over 12 months, total.....	15	22	13	48	59	68	62
Under 33 1/4% down payment, new.....	...	...	...	29	26	23	19
Under 33 1/4% down payment, used*.....	...	...	...	43	27	24	23
Under 33 1/4% down payment, total.....	8	14	12	34	26	23	21
Per Cent Trade-Ins ¹							
On sales of new cars.....	73	89	86	85	85	84	88
On sales of used cars.....	46	48	52	55	51	55	53
Used Cars Sold, % of New ².....	...	209	162	140	151	162	216

*Standard down payment was 40% for used cars prior to 1936.

¹—From National Automobile Dealers Association. ²—From Automobile Manufacturers Association.

State Legislation Affecting Motor Vehicle Industry

(Compiled as of May 26, 1939)

LAWS AFFECTING TRADE AND INDUSTRY GENERALLY, INCLUDING MOTOR VEHICLE

LAWS AFFECTING MOTOR VEHICLE TRADE AND INDUSTRY SPECIFICALLY

Anti-Trust	Anti-Discrimination	Sales Below Cost	Resale Price Maintenance	Sales Taxes	Gross Receipts Taxes	STATES	Anti-Coercion in Sales Financing	Licensing of Dealers	Used Car Import Control	Financial Responsibility	Certificate of Title	Periodic Inspections
X			X	X		Alabama			X		X	
X	X	X	X	X		Arizona			X	X	X	
X	X	X	X	X		Arkansas	X		X	X	X	
	X	X	X	X		California	X			X	X	
						Colorado	X				X	X
X		X	X		X	Connecticut		X		X		X
X	X		X			Delaware	X		X	X	X	X
X	X		X			Florida			X		X	
X	X		X			Georgia	X			X	X	
						Idaho						
X			X	X	X	Illinois			X	X	X	X
X	X		X	X		Indiana	X			X	X	
X	X		X	X		Iowa	X	X		X	X	X
	X	X	X	X		Kansas	X			X	X	
		X	X			Kentucky				X	X	
X	X	X	X	X	X	Louisiana	X		X	X		X
X		X	X			Maine		X	X	X		X
X	X	X	X			Maryland				1	X	X
X	X	X	X	X		Massachusetts		X		X		X
						Michigan						
X	X	X	X	X		Minnesota	X	X	X	X		X
X	X	X	X	X		Mississippi					X	X
X	X	X	X			Missouri	X			X	X	
X	X	X	X			Montana	X	X		X		
						Nebraska						
			X			Nevada					X	
X			X			New Hampshire				X		X
X			X			New Jersey				X		X
X			X	X	X	New Mexico	X				X	X
			X			New York				X		X
X	X		X	X		North Carolina			X	X	X	
X	X		X	X		North Dakota	X	X		X	X	
X	X		X	X		Ohio				X	X	
X	X	X	X	X		Oklahoma	X	X	X	X	X	X
					X	Oregon						
		X	X		X	Pennsylvania				X	X	X
X	X	X	X			Rhode Island				X		
X	X	X	X	X		South Carolina		X	X	X	X	
X	X	X	X			South Dakota					X	
						Tennessee	X				X	
X						Texas		X			X	X
X	X	X	X	X		Utah	X		X		X	X
X			X		X	Vermont				X	X	X
X	X	X	X	X	X	Virginia			X	X	X	X
						Washington						
X			X	X	X	West Virginia		X	X	X	X	
X	X	X	X	X		Wisconsin	X	X	X	X	X	
					X	Wyoming				X	X	X
						Dist. of Col.						

NOTE—Folders containing digest of this legislation or reference to sources of information thereon can be obtained on request to the Legislative Department, Automobile Manufacturers Association.

¹—Compulsory Motor Vehicle Liability Insurance Law.

41,700 Car Dealers in United States

(Figures from Chilton Company, as of March 1, 1939)

	Total Car and Truck Dealers	Total Passenger Car Dealers	Total Truck Dealers	Car Dealer Service Stations	Independent Repair Shops	Total Retail Outlets (Duplication Eliminated)	No. of Wholesalers	Truck Fleets	
								No. of Fleets*	No. of Trucks*
Alabama	353	333	281	320	263	645	71	216	5,047
Arizona	148	143	97	120	155	308	27	87	3,030
Arkansas	389	370	329	353	434	810	76	120	2,997
California	2,075	1,969	1,368	1,804	5,134	7,487	496	1,804	88,222
Colorado	467	437	313	437	536	1,027	67	245	7,635
Connecticut	632	605	349	806	808	1,517	99	541	14,298
Delaware	67	64	28	64	106	199	13	91	2,166
Dist. of Col.	90	88	35	87	151	259	28	204	76,710
Florida	508	477	340	458	531	1,067	101	389	8,692
Georgia	519	493	403	493	324	885	92	275	9,646
Idaho	333	314	221	309	189	535	27	40	1,076
Illinois	2,375	2,266	1,544	2,270	2,945	5,474	382	1,911	87,117
Indiana	1,248	1,209	776	1,118	1,318	2,520	191	766	17,056
Iowa	1,608	1,501	1,111	1,451	1,443	3,183	162	369	7,698
Kansas	1,070	1,015	745	966	944	2,010	125	260	5,582
Kentucky	735	709	462	645	481	1,240	101	277	11,355
Louisiana	374	348	266	343	316	713	67	415	10,319
Maine	419	398	249	354	468	843	47	128	2,809
Maryland	455	441	178	430	569	1,068	77	504	13,100
Massachusetts	1,233	1,200	587	1,110	1,248	2,564	217	1,399	42,748
Michigan	1,802	1,751	1,122	1,707	1,768	3,629	234	1,256	40,267
Minnesota	1,497	1,463	825	1,413	1,558	3,138	108	514	17,608
Mississippi	375	345	290	322	209	589	59	69	1,657
Missouri	1,064	1,034	651	951	1,586	2,725	183	772	29,657
Montana	432	389	341	406	307	738	38	93	2,558
Nebraska	824	793	636	759	845	1,731	92	205	7,427
Nevada	124	120	89	122	96	227	11	30	690
New Hampshire	267	254	166	246	266	530	25	77	2,093
New Jersey	1,112	1,069	618	1,069	1,871	3,100	178	1,208	38,570
New Mexico	170	160	133	162	143	325	23	43	1,527
New York	3,110	2,960	1,860	2,754	5,224	8,761	540	2,679	151,282
North Carolina	689	670	368	644	594	1,354	110	304	9,482
North Dakota	556	530	373	538	482	1,068	29	49	803
Ohio	2,319	2,230	1,445	2,187	2,323	4,730	378	1,478	46,991
Oklahoma	823	763	568	784	755	1,746	117	287	10,252
Oregon	453	436	345	439	821	1,332	74	187	6,451
Pennsylvania	3,286	3,136	1,995	3,127	4,047	7,633	400	2,229	68,954
Rhode Island	161	158	112	158	285	486	31	238	5,109
South Carolina	343	328	233	309	228	542	44	169	4,641
South Dakota	453	430	349	428	382	853	31	51	905
Tennessee	447	427	367	423	441	912	95	348	9,252
Texas	1,945	1,771	1,367	1,910	2,892	5,193	302	900	31,385
Utah	200	197	140	201	229	471	39	122	3,638
Vermont	219	208	128	209	350	582	24	38	2,183
Virginia	719	706	368	681	881	1,613	74	343	9,043
Washington	748	709	682	664	1,285	2,098	133	422	10,449
West Virginia	511	489	319	497	373	905	77	238	7,804
Wisconsin	1,746	1,680	1,208	1,629	1,514	3,336	134	617	15,040
Wyoming	205	196	129	195	139	362	14	54	1,281

Total 41,698 39,782 26,909 38,672 50,257 95,063 6,063 25,058 954,302

*Number of truck fleets of 8 or more trucks each.

One Out of Every Seven Rail Freight Carloads Is Automotive

Year	All Traffic, Carloads (I.C.C. Statistics)	Automotive Freight Carloads*	Automotive Freight Per Cent of Total Carloads	Revenue From Automotive Freight
1929.....	36,821,868	3,667,792	10.0%	\$563,411,000
1930.....	31,479,071	3,330,583	10.6%	478,466,000
1931.....	24,631,961	3,106,645	12.6%	396,738,000
1932.....	18,067,496	2,543,833	14.1%	325,000,000
1933.....	19,278,087	2,640,910	13.7%	324,320,000
1934.....	21,223,443	3,064,805	14.4%	365,021,000
1935.....	21,779,757	3,361,601	15.5%	416,234,000
1936.....	25,950,943	3,791,247	14.6%	494,562,000
1937.....	27,175,680	4,155,749	15.3%	473,431,000
1938.....	21,167,420	3,095,108	14.6%	359,069,000

* Includes freight produced by motor vehicle manufacture and use, and highway construction.

Shipments of Assembled Passenger Cars and Motor Trucks

From Factories and Assembling Plants in United States, including Exports

Year	Railroad Carloads of Machines	Machines Delivered Overland	Machines Shipped by Boat	Year	Railroad Carloads of Machines	Machines Delivered Overland	Machines Shipped by Boat
1929.....	733,631	1,958,738	199,576	1934.....	318,294	1,209,291	154,540
1930.....	423,486	1,412,450	99,414	1935.....	401,547	1,899,974	272,458
1931.....	283,858	1,050,545	85,609	1936.....	448,685	2,237,432	311,436
1932.....	130,820	706,977	51,103	1937.....	476,221	2,452,300	340,773
1933.....	198,827	930,303	126,258	1938.....	224,955	1,330,334	151,632

29% of Rail Carloads of Manufactures and Miscellaneous Is Automotive Freight

PERCENTAGE AUTOMOTIVE			
	Manufactures & Miscellaneous	Forests and Mines	Total Carload Traffic
1929.....	23.0%	4.5%	10.0%
1930.....	24.0%	5.8%	10.6%
1931.....	28.8%	7.6%	12.6%
1932.....	34.4%	8.4%	14.1%
1933.....	32.7%	8.0%	13.7%
1934.....	33.0%	8.4%	14.4%
1935.....	32.9%	8.6%	15.5%
1936.....	30.3%	8.3%	14.6%
1937.....	29.0%	10.2%	15.3%
1938.....	29.4%	10.0%	14.6%

102,477,000 Cubic Feet Steamship Space Required for Motor Vehicle Shipments

The major tonnage of important steamship lines consists of automobiles and parts shipped by motor vehicle manufacturers to foreign countries. Below is the number of cubic feet of steamship space used in:

Cubic Feet		Cubic Feet	
1933.....	33,792,300	1936.....	98,221,700
1934.....	76,743,300	1937.....	146,728,200
1935.....	97,562,100	1938.....	102,477,200

Additional data on automotive freight on following pages

3,095,000 Carloads Automotive Freight Pay

Automotive Proportion of all Railroad Carloads

Products of	All Traffic, Carloads (I. C. C. Statistics)	Of which Auto Mfg. and Use and Highway Building Produces (See table opposite)	
		Carloads	Per Cent
Manufactures and Miscellaneous..	7,389,337	2,173,108	29.4%
Forest and Mines.....	9,175,712	922,000	10.0%
All other Carload Traffic.....	4,602,371	.....	.....
Total carload traffic originated	21,167,420	3,095,108	14.6%

Rail Carloads of Automobiles, Trucks, Parts and Tires, 1938 (From Railroad Commodity Reports)

EASTERN LINES	Carloads		Total Revenue
	Originated	Received from Connections Carried	
N. Y. C. Lines (B. & A. R.R.—C. C. C. & St. L. Lines—M. C. R.R.—N. Y. C. R.R.—P. & L. E. R.R.).....	102,729	29,570	\$9,541,723
C. T. W. R.R.....	42,892	6,151	2,362,212
P. M. Ry.....	32,073	5,265	2,171,547
D. T. & I. R.R.....	30,953	3,120	1,319,225
Penn. R.R.....	27,184	19,643	3,907,814
Erie R.R.....	13,010	15,529	1,808,371
B. & O. R.R.....	7,300	14,892	1,453,005
Wabash Ry.....	4,743	24,432	2,070,583
Ann Arbor R.R.....	2	2,552	129,062
Reading Co.....	3,514	11,707	379,883
C. R.R. of N. J.....	38	4,029	112,680
A. C. & Y. Ry.....	3,486	472	141,266
D. & T. S. L. R.R.....	2,299	6,445	154,836
N. Y. C. & St. L. R.R.....	2,128	7,137	606,541
C. & E. I. Ry.....	1,625	5,876	387,798
N. Y. S. & W. R.R.....	1,435	4,099	155,638
B. & M. R.R.....	1,384	9,876	555,335
D. L. & W. R.R.....	1,370	11,991	942,779
L. V. R.R.....	562	15,081	1,164,175
C. I. & L. R.R.....	546	1,437	102,230
N. & W. Ry.....	438	3,792	409,720
N. Y. N. H. & H. R.R.....	401	11,913	557,806
C. & O. Ry.....	283	4,538	344,599
D. & H. R.R.....	203	4,932	128,760
W. Md. Ry.....	150	3,148	123,502
C. Vt. Ry.....	140	2,661	151,290
W. & L. E. R.R.....	124	4,425	124,559
Virginian Ry.....	33	1,723	102,563
E. J. & E. Ry.....	17	2,071	25,177
P. & W. Va. Ry.....	.....	2,568	47,078
C. F. Lines in Me. & Vt.....	.....	4,109	85,135
Miscellaneous.....	82	14,903	348,723
Total Eastern Lines.....	281,144	256,573	\$31,920,615
SOUTHERN LINES			
Southern Ry.....	10,566	8,451	\$1,211,617
C. N. O. & T. P. Ry.....	525	7,317	717,646
M. & O. R.R.....	306	1,208	125,894
A. G. S. R.R.....	300	1,064	65,347
N. O. & N. E. R.R.....	31	714	39,685
G. S. & F. Ry.....	2	1,965	102,784
Ill. Cent. R.R.....	7,096	15,684	1,992,722
C. of Ga. Ry.....	42	1,599	75,839
L. & N. R.R.....	2,749	3,724	603,900
A. C. L. Ry.....	158	3,896	242,958
S. A. L. Ry.....	130	2,941	214,677
G. M. & N. R.R.....	117	1,778	156,236
N. C. & St. L. Ry.....	74	1,464	105,115
Norfolk Southern R.R.....	57	808	53,649
Clinchfield R.R.....	.....	1,895	104,192
Miscellaneous.....	54	5,131	258,324
Total Southern Lines.....	22,207	59,639	\$6,070,585

(Continued on following page)

Pay Railroads \$359,069,000 in 1938

Automotive Freight 3,095,108 Carloads

	Carloads*		Carloads*
Motor vehicles, parts, tires.	389,108	Road and fuel oil	40,000
Gasoline	1,131,000	Crude rubber	8,200
Iron and steel	132,000	Cement for roads, bridges	317,000
Iron Ore	82,300	Asphalt for roads	82,000
Coal and coke	46,000	Gravel, sand, stone, brick	637,000
Crude petroleum	56,500	Miscellaneous, such as non-ferrous metals, paints, upholstery materials	110,000
Lubricating oil	54,000		
Lumber	10,000		
Total Automotive Freight Carloads			3,095,108
Rail Revenues from Automotive Freight			\$359,069,000

*Partly estimated by Automobile Manufacturers Association.

(Continued from preceding page)

WESTERN LINES	Carloads Originated	Carloads Received from Connections	Total Carloads Carried	Revenue
Mo. Pac. R.R.	19,047	12,248	31,295	\$2,312,938
Int. Gt. Northern Ry.	27	2,818	2,845	240,894
Gulf Coast Lines	25	1,213	1,238	132,635
T. & P. Ry.	876	8,568	9,444	732,033
So. Pac. Co. (Pac. Lines)	16,538	11,880	28,418	4,138,956
T. & N. O. R.R.	252	6,983	7,235	793,707
C. M. St. P. & P. R.R.	15,804	8,059	23,863	1,751,215
C. & N. W. Ry.	11,385	11,471	22,856	1,327,891
C. St. P. M. & O. Ry.	732	4,896	5,628	263,371
A. T. & S. Fe. Ry. System	3,995	13,874	17,869	4,136,691
St. L. S. F. Ry.	3,648	4,936	8,584	846,188
St. L. S. F. & Texas Ry.	13	1,071	1,084	42,269
C. R. I. & P. Ry.	2,115	10,034	12,149	1,348,641
C. R. I. & G. Ry.	27	2,871	2,898	66,522
St. L. S. W. Ry.	2,082	5,681	7,763	1,046,928
M. K. T. Lines	1,646	4,478	6,124	792,339
C. B. & Q. R.R.	1,562	8,028	9,590	1,058,264
Ft. W. & D. C. Ry.	46	1,091	1,137	72,418
Col. & Southern Ry.	24	602	626	30,845
K. C. S. Ry.	1,610	3,981	5,591	441,721
Gt. Nor. Ry.	1,414	5,813	7,227	1,132,569
Union Pacific System	1,175	17,123	18,298	4,235,393
C. G. W. R.R.	445	4,619	5,064	371,992
M. St. P. & S. S. M. Ry.	409	2,326	2,735	277,161
Nor. Pac. Ry.	396	5,078	5,474	863,929
Western Pac. R.R.	133	2,427	2,560	325,298
Alton R.R.	109	1,509	1,618	109,660
M. & St. L. R.R.	104	2,427	2,531	111,706
D. & R. G. W. R.R.	35	4,711	4,746	487,714
La. & Ark. Ry.	33	2,328	2,361	120,129
La. Ark. & Tex. Ry.	27	1,060	1,087	54,181
S. P. & S. Ry.	9	2,386	2,395	129,804
Kan., Okla. & Gulf Ry.		3,668	3,668	155,085
G. B. & W. R.R.		1,663	1,663	98,968
Miscellaneous	14	3,353	3,367	136,760
Total Western Lines	85,757	185,274	271,031	\$30,186,815
TOTAL U. S. AUTOS, TRUCKS AND PARTS, INCLUDING TIRES	389,108	501,486	890,594	\$68,178,015

Additional data on automotive freight on page 67

Large Truck Fleets Owned Mostly by Private Shippers

Does not include all fleets with more than 100 vehicles

(Survey as of June 1, 1939 by Automobile Manufacturers Association)

	No. of Trucks	Tractors	Trailers	Cars		No. of Trucks	Tractors	Trailers	Cars
Bell Tel. Co's.....	16,210	...	...	4,490	Brink's, Inc.....	500	...	...	...
Standard Oil Co., N. J.....	12,000	...	...	4,000	Consol. Laundries Corp.....	497	3	3	15
R'way Express Agency.....	9,960	233	611	274	Dairymen's League.....	471	13	26	212
Borden Co.....	7,100	400	...	870	Ohio Oil Co.....	483	...	116	398
Nat'l D'ry Prod.....	7,155	197	596	995	Com'wealth Edison Co.....	480	2	10	328
Standard Oil Co., Ind.....	6,633	23	52	1,883	Langendorf United Bak.....	477	...	20	20
Socoyn Vacuum Oil Co.....	4,245	...	...	2,589	Fed. Water Serv. Corp.....	475	...	...	375
Continental Baking Co.....	3,911	47	50	178	R. H. Macy & Co.....	427	5	9	11
General Baking Co.....	3,195	40	40	90	Columbia Baking Co.....	400	...	...	8
Swift & Co.....	2,960	115	220	3,285	Helms Bakeries.....	367	3	5	5
Shell Oil Co's.....	2,749	80	64	2,779	Crane Company.....	353	10	8	1,052
Ward Baking Co.....	2,501	4	6	36	Pittsburg Plate Gl. Co.....	362	...	...	750
Armour & Co.....	2,242	130	153	3,474	Consumers Power Co.....	354	...	...	1,093
Standard Brands, Inc.....	2,347	...	...	444	N. Y. Pwr. & Lgt. Co.....	350	2	4	136
Hertz Drivervelf St's.....	2,264	...	...	566	City Baking Co., Balt.....	346	4	5	15
Stand. Gas & Elec. Co.....	2,104	...	...	700	Drake Bakeries, Inc.....	346	...	...	7
Middle West S'rvce Co.....	1,997	...	361	1,087	Burns Brothers.....	338	2	1	18
Standard Oil Co., Calif.....	1,826	4	4	1,156	Wagner Baking Co.....	333	7	7	21
National Biscuit Co.....	1,605	6	6	2	Western Union Tel. Co.....	335	1	10	1,523
Pacific Gas & Elec. Co.....	1,595	2	3	1,034	Horton M'r. Lines, Inc.....	79	246	260	17
Jewel Tea Co.....	1,552	...	...	93	Fischer Baking Co.....	320	2	3	6
Dugan Bros.....	1,500	50	50	60	City Ice & Fuel Co., Cleve.....	307	14	16	13
Quality Bakers of Amer.....	1,500	5	10	200	Postal Tel. Cable Co.....	318	...	...	191
The Texas Co.....	1,502	...	3	1,642	Phila. Dairy Prod. Co.....	293	14	28	5
Cities Serv. & Aff'ltd Co's	1,386	101	59	654	Pacific Fruit & Prod. Co.....	286	...	25	47
Gulf Oil Corp.....	1,138	61	22	1,393	J. Spang Baking Co.....	266	...	...	5
Union Oil Co. of Calif.....	1,084	28	107	912	Sears, Roebuck & Co.....	244	21	36	30
Kraft-Phenix Ch. Corp.....	1,102	7	7	300	Spaulding Bak. Co. Inc.....	238	7	7	10
Shell Oil Company.....	1,040	60	64	1,009	Long Transportat'n Co.....	213	77	76	90
Met'r p. Distr's, Inc.....	1,086	...	...	12	Commercial Motor Fgt.....	...	258	222	13
Gen'l Ice Cream Corp.....	1,016	2	3	184	Richfield Oil Corp.....	238	19	...	118
Mid. Cont. Petrol. Corp.....	664	334	110	300	Continental Oil Co.....	236	14	72	1,141
The Atlantic Ref'ng Co.....	981	16	57	503	Marshall Field & Co.....	241	8	27	141
Firestone Tr. & Rub. Co.....	972	6	65	1,161	Gottfried Baking Co.....	200	...	...	5
Skelly Oil Company.....	961	4	4	288	Roadway Express, Inc.....	117	110	110	9
Tide Water Oil Co's.....	952	12	36	367	Liquid Carbonic Corp.....	213	9	11	...
Interstate Baking Corp.....	902	1	2	2	Jacob Laub Baking Co.....	216	...	...	12
The Pure Oil Co.....	750	150	275	800	Standard Oil Co., Pa.....	193	11	18	106
Am. Gas & Elec. Corp.....	871	12	...	906	Donaldson Baking Co.....	204	...	...	...
Sinclair Refining Co.....	850	7	7	184	General Foods Corp.....	200	...	...	1,130
Golden State Co., Ltd.....	853	...	28	75	Hoffman Beverage Co.....	186	8	12	187
Phillips Petroleum Co.....	793	...	...	644	Baltimore Transfer Co.....	90	100	168	10
Western Dairy Prod.....	780	...	...	125	Comp. Auto Trans., Inc.....	...	180	180	...
Gordon Baking Co.....	713	59	59	...	Capital Bakers, Inc.....	173	1	1	10
H. P. Hood & Sons, Inc.....	740	7	8	22	Brooks Trans'p'tion Co.....	100	63	63	7
Keeshin Tr. Fgt. Lines.....	162	578	758	32	Liberty Baking Co.....	163	...	...	...
The Cudahy P'k'ng Co.....	714	15	...	1,000	Interstate Dsp'tch., Inc.....	110	50	60	14
Hathaway B'k'ries, Inc.....	720	4	4	10	Motor Haulage Co.....	139	31	38	8
Magnolia Petroleum Co.....	557	166	435	686	Brooklyn Union Gas Co.....	156	...	...	67
U. S. Trucking Corp.....	674	33	148	13	Boston Elev. Rwy. Co.....	146	10	15	50
Loose-Wiles Biscuit Co.....	700	...	...	...	Georgia Power Co.....	154	...	...	509
Cn. Ed. N. Y. & Af. Co's.....	677	12	4	267	Overland Fght. Trs. Co.....	132	18	24	12
Sun Oil Company.....	498	173	174	461	Boston Edison Co.....	147	2	7	294
Goodyear Tr. & Rub. Co.....	621	13	122	1,099	Borck & Stevens, Inc.....	138	1	1	...
Imperial Oil Ltd.....	578	56	56	15	Huber & Huber Mo. Ex.....	82	53	53	8
Standard Oil Co. of Ohio.....	519	111	197	290	Geo. F. Alger Co.....	39	94	196	...
National Baking Co.....	626	2	2	30	Braun Baking Co.....	130	...	...	3
Humble Oil & Rfg. Co.....	358	258	258	674	Oswald Jaeger Bkg. Co.....	122	...	...	1
American Bakeries Co.....	580	10	10	12	Utah Oil Refining Co.....	114	...	2	60
So. Cal. Edison Co.....	547	31	175	392	Horlacher Delivery Ser.....	104	4	9	3
Freihofer Baking Co.....	547	3	10	...	Gay's Express, Inc.....	72	32	40	4
Kroger Groc. & Bk. Co.....	100	450	600	50	Barnsdall Oil Co.....	83	18	12	177
Philadelphia Elec Co.....	532	...	...	332					
B. F. Goodrich Co.....	515	5	33	4					
American Ice Co.....	518	...	8	...					

Railroad Use of Trucks Is Rapidly Expanding

(Figures from Simmons-Boardman Publishing Co.)

Year	Terminal Transfer Service	Intercity Service	Store Door Delivery Service	Total No. in Service ¹	Percent Increase Yearly
1925.....	800	100	0	900	....
1926.....	1,450	150	0	1,600	78%
1927.....	2,900	400	0	3,300	106%
1928.....	4,350	550	0	4,900	48%
1929.....	4,500	750	650	5,900	20%
1930.....	4,750	850	1,400	7,000	19%
1931.....	5,000	950	4,050	10,000	43%
1932.....	5,500	1,000	5,500	12,000	20%
1933.....	6,750	1,150	15,100	23,000	92%
1934.....	7,175	1,275	16,857	25,307	10%
1935.....	8,100	3,402	32,465	43,967	73%
1936.....	8,304	3,745	33,022	45,071	3%
1937.....	8,419	5,102	39,641	53,162	18%
1938.....	9,111	5,890	48,780	63,781	20%

¹—Exclusive of trucks owned by Railway Express Agency—10,063 in 1938.

Federal, State and Local Governments Own 387,000 Motor Vehicles

(Source: U. S. Bureau of Public Roads)

	Federal	State, County & Municipal ¹	Total ²
Passenger Cars.....	17,971	50,284	68,255
Motor Buses.....	647	22,290	22,937
Motor Trucks.....	91,143	117,239	208,382
Total Motor Vehicles.....	109,761	*257,469	*367,230
Trailers & Semi-trailers.....	2,564	8,610	11,174
Motor-cycles.....	799	8,081	8,880
Total Vehicles.....	113,124	*274,160	*387,284

* Includes 67,656 not classified by type.

¹—Incomplete in that some states and cities reporting exclude certain classes such as fire apparatus and police vehicles.

²—The U. S. Bureau of Public Roads does not show a combined total for federal, state and city vehicles since the figures are obtained from two general sources and there may be some duplication. But this duplication is partly offset by omission of some classes of vehicles by the state and city authorities reporting.

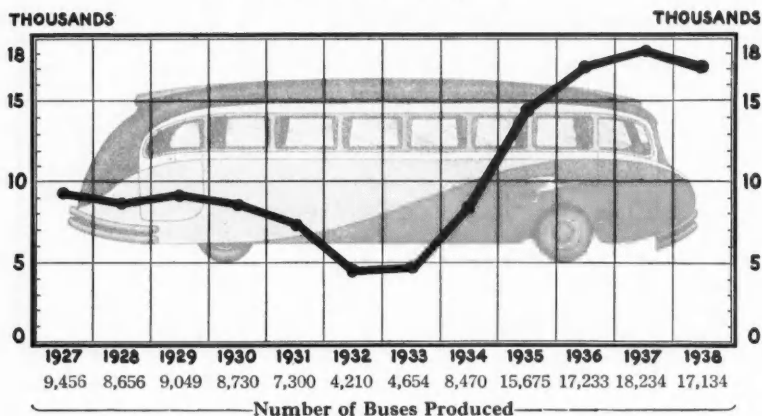
25,000 Fleets Operate 954,000 Trucks

(Source: Chilton Company)

Fleets of 8 or More Trucks			Fleets of 8 or More Trucks		
As of March 1939	Fleets Number	Trucks Number	As of March 1939	Fleets Number	Trucks Number
Bakeries, Candies, Florists	1,602	61,601	Ice Dealers, Manufacturers	493	14,191
Bottlers, Breweries.....	905	18,367	Laundries, Cleaners, Dyers	1,691	34,967
Coal Dealers, Mineral			Manufacturers, Steel Mills	789	11,527
Mines.....	1,076	19,202	Meats, Fish.....	686	21,057
Contractors, Builders....	2,981	49,180	Newspapers, Publishers..	215	5,125
Dairy Products, Milk, Ice			Oil, Gasoline, Greases....	1,333	91,631
Cream.....	1,795	63,107	Paints, Chemicals, Drugs.	192	4,397
Department Stores, Fur-			Public Utilities, Railroads	1,237	74,248
niture.....	489	12,087	Vegetables, Farmers,		
Express, Hauling, Inter &			Chain Stores.....	1,535	39,815
Intra State.....	5,376	162,095	Miscellaneous.....	659	12,283
Flour, Feed, Grains.....	153	4,243			
Government, State,			Totals.....	25,058	954,302
County, Municipal....	1,851	230,374			

1938 Bus Output Nearly Equals Record

(Figures from "Bus Transportation")



132,600 Motor Buses in United States, 1938

(Figures as of December 31st from "Bus Transportation")

REVENUE	1933	1934	1935	1936	1937	1938
1. City	16,500	17,580	19,250	22,000	24,500	29,200
2. Intercity	26,314	22,820	23,750	24,750	24,750	20,000
Total (1 + 2)	42,814	40,400	43,000	46,750	49,250	49,200
3. Sightseeing and charter hire	2,186	2,600	2,000	2,250	2,250	2,300
Total (1 + 2 + 3)	45,000	43,000	45,000	49,000	51,500	51,500
NON-REVENUE						
4. Schools*	60,300	64,130	71,850	73,900	78,100	80,100
5. Hotel	350	300	300	300	300	300
6. Industrial	600	500	500	500	500	500
7. Miscellaneous	250	200	200	200	200	200
Total (4 + 5 + 6 + 7)	61,500	65,130	72,850	74,900	79,100	81,100
Grand Total	106,500	108,130	117,850	123,900	130,600	132,600
a. Motor carriers	33,280	29,990	30,650	34,400	36,000	29,400
b. Electric railways	11,000	11,600	12,600	12,850	13,700	18,000
c. Steam railroads	720	1,410	1,750	1,750	1,800	1,800

*About 6,000 buses in school service are operated part time as common carriers, and consequently are included in the figure for that service.

Bus Census by States—1931-1938

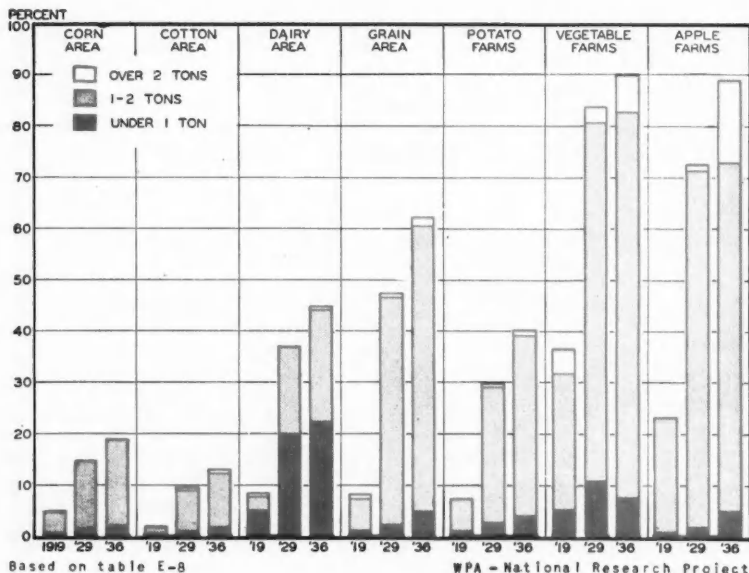
(This is a compilation of statistics obtained as a result of actual censuses conducted by "Bus Transportation." Figures indicated for the 1931 census may be accepted as embracing approximately 94 per cent of the bus operation in the United States. Due to improvement of census machinery "Bus Transportation" has been enabled to present a more comprehensive picture of the nation's bus operations with each succeeding year, and figures since 1931 approximate 100 per cent.)

	1931	1932	1933	1934	1935	1936	1937	1938
Alabama.....	2,376	2,505	2,391	2,491	2,605	2,801	2,879	2,888
Arizona.....	509	1,041	827	787	690	792	673	717
Arkansas.....	1,450	1,524	1,357	1,354	1,567	1,592	1,381	1,415
California.....	4,289	5,165	4,282	4,027	4,490	4,565	4,502	4,689
Colorado.....	985	1,375	1,097	1,258	1,693	1,683	1,609	1,764
Connecticut.....	1,228	1,276	1,196	1,331	1,388	1,490	1,632	1,765
Delaware.....	258	237	273	254	258	277	299	315
Dist. of Col.....	368	390	365	373	522	594	649	643
Florida.....	1,564	1,151	1,754	1,801	1,890	1,817	1,939	2,025
Georgia.....	1,791	2,785	2,571	2,781	2,532	2,550	2,618	3,094
Idaho.....	515	534	425	457	602	594	418	398
Illinois.....	2,077	1,595	1,800	1,736	2,322	2,350	2,564	2,494
Indiana.....	7,307	7,542	7,144	7,223	8,975	7,966	8,131	8,156
Iowa.....	2,753	2,122	1,990	2,665	2,782	2,473	2,644	2,763
Kansas.....	814	850	816	826	968	945	788	777
Kentucky.....	755	1,023	1,270	1,099	1,392	1,497	1,616	1,616
Louisiana.....	2,666	2,727	2,723	2,725	2,872	2,829	3,074	3,082
Maine.....	259	638	564	656	715	665	390	430
Maryland.....	1,401	1,282	1,363	1,269	1,295	1,255	1,255	1,330
Massachusetts.....	3,180	3,540	3,401	3,662	4,089	4,144	4,259	4,287
Michigan.....	2,768	2,700	2,027	1,988	2,106	2,242	2,838	2,972
Minnesota.....	2,010	2,153	2,224	2,251	2,331	2,344	2,447	1,977
Mississippi.....	2,889	4,110	4,089	4,401	4,425	4,447	4,452	4,920
Missouri.....	924	1,430	1,918	1,904	2,178	2,505	2,989	3,517
Montana.....	513	536	467	505	578	586	621	614
Nebraska.....	837	707	848	531	644	662	689	701
Nevada.....	150	178	230	233	371	277	276	274
New Hampshire.....	344	258	351	290	374	458	319	332
New Jersey.....	6,814	7,127	5,801	6,770	6,756	7,133	7,310	6,181
New Mexico.....	546	596	639	527	985	963	1,093	1,077
New York.....	5,010	8,442	9,058	9,939	11,401	12,660	13,841	14,367
North Carolina.....	4,381	4,712	4,714	4,843	4,403	4,340	4,507	4,731
North Dakota.....	563	587	598	610	654	648	669	683
Ohio.....	7,228	7,820	7,601	8,229	9,020	9,533	9,660	10,248
Oklahoma.....	1,810	2,253	2,270	1,939	2,028	2,660	3,018	3,022
Oregon.....	806	907	775	890	873	918	991	1,402
Pennsylvania.....	5,205	5,719	4,777	4,867	5,129	5,237	5,819	6,054
Rhode Island.....	402	500	357	437	421	497	534	471
South Carolina.....	1,787	1,844	1,634	1,544	1,566	1,572	1,600	1,624
South Dakota.....	355	451	396	401	450	460	473	466
Tennessee.....	1,235	1,222	1,252	1,252	1,646	2,024	1,981	2,431
Texas.....	1,927	3,329	3,347	3,451	3,802	5,260	6,663	7,787
Utah.....	599	521	522	577	609	635	651	641
Vermont.....	269	400	369	339	369	343	385	362
Virginia.....	2,221	2,335	2,401	2,355	2,427	2,502	2,637	2,829
Washington.....	2,287	2,406	2,512	2,654	2,549	2,774	2,889	2,594
West Virginia.....	887	1,100	955	1,144	1,207	1,402	1,520	1,663
Wisconsin.....	1,297	1,180	1,148	1,757	1,653	1,690	2,516	2,521
Wyoming.....	798	861	867	874	877	848	872	883
United States Total.....	93,407	105,786	101,747	106,277	115,479	120,504	127,581	132,002

Nearly 90% of Vegetable and Apple Farmers Own Trucks

Chart Shows Percent of Farms Reporting Trucks by Major Crop and by Size of Truck

(Source: "Changes in Farm Power Equipment: Tractors, Trucks and Automobiles," a study by the Works Progress Administration, December, 1938)



A-123

Publications of General Interest Issued by Automobile Manufacturers Association

Automobile Facts—A monthly publication of interesting information about the automobile industry.

Motor Truck Facts—A biennial statistical resume relating to trucks and trucking.

Men, Methods and Machines—A refutation of technological unemployment in automobile manufacturing.

Legislative Digests—

Motor Vehicle Inspection Laws
Used Car Import Control Laws
Anti-Discrimination Laws
Anti-Coercion Law on Sales Financing
Resale Price Maintenance Laws
Motor Vehicle Dealer Licensing Laws
License Plate Display Laws
Anti-Trust Laws
Laws Prohibiting Sales Below Cost

Trailer Registrations, 1931-1938

Includes Passenger Car Trailers

(Figures from U. S. Bureau of Public Roads)

STATES	1931	1932	1933	1934	1935	1936	1937	1938
Alabama.....	3,279	3,948	4,007	4,671	5,586	4,634	4,850	3,890
Arizona.....	1,623	1,765	1,989	2,313	2,835	3,302	4,321	4,567
Arkansas.....	3,745	3,118	6,887	7,950	9,398	10,253	12,278	10,162
California.....	55,024	61,870	72,696	82,110	95,233	112,088	132,932	142,268
Colorado.....	258	563	832	946	968	1,491	1,468	1,422
Connecticut...	926	1,384	1,816	2,393	3,055	4,226	4,904	5,356
Delaware....	517	649	912	1,356	1,863	2,227	2,645	2,772
Florida.....	6,751	7,522	9,567	9,886	11,256	13,472	16,238	17,324
Georgia.....	3,317	4,021	5,836	9,293	10,823	11,903	12,262	12,684
Idaho.....	7,558	9,924	10,039	11,733	12,925	16,141	18,645	18,172
Illinois.....	9,283	8,950	9,228	10,720	14,439	18,168	23,210	23,073
Indiana.....	19,169	23,570	27,996	34,425	43,013	52,601	61,102	62,914
Iowa.....	3,207	2,833	2,416	44,477	50,244	58,462	66,172	87,447
Kansas.....	1,778	2,014	3,847	3,733	4,045	5,070	5,862	6,728
Kentucky....	6	6	7	7	8	8	8	8
Louisiana....	5,670	6,624	6,957	6,528	9,196	12,038	14,321	14,587
Maine.....	3,053	4,195	5,893	7,578	8,464	9,124	9,751	10,144
Maryland....	1,128	1,327	1,383	1,434	1,750	3,224	3,422	4,208
Massachusetts	650	525	525	752	507	10,488	11,311	13,122
Michigan....	61,932	77,437	78,998	92,184	102,975	119,771	133,863	141,647
Minnesota...	18,291	21,839	19,648	24,707	24,260	26,567	29,704	31,033
Mississippi...	2,560	2,594	850	707	809	1,294	2,078	1,771
Missouri....	5,469	10,008	13,110	18,024	22,550	26,821	31,055	33,368
Montana.....	59	61	483	506	2,256	1,829	2,812	2,953
Nebraska....	15,737	13,531	14,727	18,640	20,461	26,273	30,091	41,294
Nevada.....	411	646	631	910	847	1,060	1,262	1,218
N. Hampshire	1,137	1,448	1,922	2,354	3,173	3,952	4,471	4,767
New Jersey...	2,916	2,863	3,162	3,734	4,431	5,645	6,692	7,276
New Mexico..	778	591	983	918	889	2,044	2,660	2,575
New York....	12,596	13,796	13,545	17,572	23,451	30,251	36,213	40,771
No. Carolina.	8,118	7,774	13,012	22,112	30,947	35,857	40,129	42,317
No. Dakota..	6	39	143	263	215	517	816	849
Ohio.....	32,717	45,588	61,156	73,287	95,248	103,308	119,269	105,249
Oklahoma....	6	6	4,184	5,420	6,452	6,960	26,471	36,498
Oregon.....	2,168	1,706	1,750	3,291	7	7	7	7
Pennsylvania.	6,307	7,835	10,139	13,642	19,732	23,776	26,889	26,225
Rhode Island.	64	68	92	147	216	372	571	631
So. Carolina...	2,100	2,041	1,764	1,919	2,759	3,320	5,716	5,396
So. Dakota...	4,994	8,852	9,693	10,128	12,568	19,349	20,121	19,080
Tennessee....	2,696	3,294	2,932	2,991	836	7	7	7
Texas.....	33,861	35,113	36,073	36,798	38,262	41,660	47,162	50,944
Utah.....	767	879	457	1,359	1,226	1,066	953	569
Vermont.....	457	519	683	964	1,321	1,464	1,706	1,853
Virginia.....	1,582	1,673	1,906	2,509	3,694	6,359	6,730	9,350
Washington..	3,000	4,543	4,849	5,470	7,776	12,122	16,031	17,826
West Virginia.	1,270	1,785	2,094	1,830	2,189	2,721	3,164	3,058
Wisconsin....	1,007	1,066	2,565	8,466	7,610	4,736	5,411	5,047
Wyoming....	6	6	20	5,398	7,279	8,542	10,099	10,209
Dist. of Col..	.....	607	1,112	1,169	1,377	1,843	2,152	809
Totals....	349,930	412,998	475,559	619,717	731,409	868,398	1,019,985	1,085,422

¹—Light trailers only. Heavy trailers reported with trucks. ²—Contract and common carrier trailers reported with trucks. ³—Estimated and excluded from motor trucks as reported. ⁴—Reported with tractors, but here separated as per semi-annual report. ⁵—Not registered. ⁶—Classified with trucks. ⁷—Not reported. ⁸—Estimated.

City Automobile Registration, Street Mi

One Passenger Car for Every 5.6 Persons
in Cities Above 100,000 Population

(Please credit The Reuben H. Donnelley Corporation

when r

Cities Above 100,000 Population	Pass. Cars ¹	Trucks ¹	Popu- lation ²	Pop. Per Pass. Car	Area Sq. Miles ³	Paved Street ⁴ Mileage	Unpaved Street ⁵ Mileage	Total Street ⁶ Mileage
Akron, Ohio.....	60,299	5,901	255,000	4.2	53.8	345	402	747
Albany, N. Y.....	26,347	5,212	131,000	5.0	19.0	149	72	221
Atlanta, Ga.....	66,762	11,142	290,000	4.3	34.4	473	129	602
Baltimore, Md....	119,758	18,301	862,000	7.2	78.7	911	94	1,005
Birmingham, Ala..	40,952	6,821	300,000	7.3	50.3	507	993	1,500
Boston, Mass.....	85,193	17,484	833,361	9.8	47.8	675	24	699
Bridgeport, Conn..	26,973	4,233	150,000	5.6	14.6	150	78	228
Buffalo, N. Y.....	122,450	14,119	600,000	4.9	39.5	638	33	671
Cambridge, Mass...	14,794	3,747	110,000	7.5	6.3	118	10	128
Camden, N. J.....	18,687	2,884	120,000	6.4	8.7	152	55	207
Canton, Ohio.....	29,018	2,952	120,000	4.1	14.0	132	203	335
Chattanooga, Tenn.	20,595	3,304	140,000	6.8	27.4	271	277	548
Chicago, Ill.....	527,183	63,267	3,643,700	6.9	212.8	3,315	311	3,626
Cincinnati, O.....	92,116	12,369	473,421	5.1	72.0	760	37	797
Cleveland, O.*.....	217,596	23,046	939,771 ³	4.4	73.4	1,009	145	1,154
Columbus, O.....	81,246	11,465	295,000	3.6	39.4	520	200	720
Dallas, Tex.....	78,563	10,341	362,636	4.6	41.2	417	205	622
Dayton, O.....	60,270	5,830	212,500	3.5	24.2	205	222	427
Denver, Col.....	81,075	10,182	310,000	3.8	58.8	175	855	1,030
Des Moines, Ia.....	38,561	5,161	152,000	4.0	53.0	327	316	643
Detroit, Mich.....	418,114	37,036	1,749,253	4.2	137.9	1,792	815	2,607
Duluth, Minn.....	22,012	2,936	101,417	4.6	62.3	206	258	464
Elizabeth, N. J....	20,220	2,332	120,000	6.0	10.5	119	13	132
El Paso, Tex.....	16,666	2,709	106,000	6.4	13.2	130	120	250
Erie, Pa.....	27,391	3,188	125,000	4.6	16.2	173	187	360
Evansville, Ind....	24,902	4,022	110,000	4.4	9.5	147	58	205
Fall River, Mass...	11,356	1,908	115,150	10.1	33.9	165	82	247
Flint, Mich.....	45,884	3,322	165,000	3.6	29.4	193	310	503
Fort Wayne, Ind...	33,625	4,210	130,000	3.9	17.5	227	93	320
Fort Worth, Tex...	43,530	6,502	192,000	4.4	46.0	380	250	630
Gary, Ind.....	21,924	2,203	110,000	5.0	40.3	225	206	431
Grand Rapids, Mich.	52,041	5,819	185,000	3.6	23.4	331	74	405
Hartford, Conn....	32,424	5,370	168,000	5.2	17.8	177	20	197
Honolulu, T. H....	35,224 ⁴	6,534 ⁴	153,073	4.3	69.6	525	110	635
Houston, Tex.....	87,672	11,123	390,000	4.4	75.0	900	200	1,100
Indianapolis, Ind..	98,965	16,279	380,000	3.8	53.1	606	243	849
Jacksonville, Fla...	28,360	6,125	165,000	5.8	30.2	260	361	621
Jersey City, N. J...	37,070	6,039	338,283	9.1	19.2	163	22	185
Kansas City, Kan...	27,178	3,884	130,000	4.8	20.2	232	100	332
Kansas City, Mo...	80,658	11,549	425,000	5.3	58.7	764	137	901
Knoxville, Tenn...	19,724	3,369	125,000	6.3	26.3	275	175	450
Long Beach, Cal...	55,396	4,445	175,000	3.2	53.1	203	260	463
Los Angeles, Cal...	466,777 ⁵	51,765 ⁵	1,550,000	3.3	450.8	2,041	2,912	4,953
Louisville, Ky.....	57,022	8,498	335,842	5.9	37.9	368	251	619
Lowell, Mass.....	11,716	1,973	100,000	8.5	12.1	107	120	227
Lynn, Mass.....	12,993	1,847	103,000	8.0	10.4	90	60	150
Memphis, Tenn....	40,228	6,348	287,625	7.1	45.6	650	10	660
Miami, Fla.....	50,102	7,431	160,000	3.2	30.3	639	71	710
Milwaukee, Wis...	125,658	14,893	625,000	5.0	43.3	666	153	819
Minneapolis, Minn.	126,532	13,367	496,000	3.9	53.8	290	618	908

Mileage, Population and Area, 1938

121 City-Owned Motor Vehicles per Mile of Street

27% of Vehicles and 31% of Population in These Cities

when reproducing motor vehicle registrations)

Cities Above 100,000 Population	Pass. Cars ¹	Trucks ¹	Popula- tion ²	Pop. Per Pass. Car	Area Sq. Miles ³	Paved Street ⁴ Mileage	Unpaved Street ⁵ Mileage	Total Street ⁶ Mileage
Nashville, Tenn.*	31,508	5,744	156,000	5.1	26.4	393	9	402
Newark, N. J.	64,037	19,588	454,000	7.1	23.6	356	4	36
New Bedford, Mass.	14,292	2,107	111,643	7.8	19.4	188	25	213
New Haven, Conn.	27,146	5,915	162,000	6.0	17.8	164	53	217
New Orleans, La. ...	57,108	10,718	500,000	8.8	198.5	350	743	1,093
New York, N. Y. ...	716,982	115,927	7,491,800	10.4	308.0	3,486	1,985	5,471
Norfolk, Va.	19,708	3,389	132,000	6.7	28.0	225	203	428
Oakland, Cal.	92,673	9,459	294,000	3.2	49.3	511	204	715
Oklahoma City, Okla.	50,902	7,982	225,000	4.4	25.0	309	400	709
Omaha, Neb.	48,411	6,695	225,000	4.6	40.5	450	260	710
Paterson, N. J.	26,413	4,752	150,000	5.7	8.5	150	25	175
Peoria, Ill.	29,143	3,954	125,000	4.3	12.4	155	75	230
Philadelphia, Pa. ...	246,787	39,449	2,431,264*	9.8	128.0	2,012	26	2,038
Pittsburgh, Pa.	105,908	18,468	690,000	6.5	56.4	850	500	1,350
Portland, Ore.	90,331	11,215	319,000	3.5	63.4	843	250	1,093
Providence, R. I. ...	54,484	8,547	243,000	4.5	17.9	332	83	415
Reading, Pa.	22,445	3,355	112,000	5.0	9.8	140	10	150
Richmond, Va.	36,729	7,859	188,000	5.1	22.0	362	39	401
Rochester, N. Y. ...	84,684	8,680	341,800	4.0	34.8	456	70	526
Salt Lake City, Utah	37,464	5,746	160,000	4.3	52.9	191	349	540
San Antonio, Tex. ...	57,275	10,431	265,000	4.6	35.5	315	450	765
San Diego, Cal.	49,245	5,021	180,000	3.6	91.0	562	102	664
San Francisco, Cal.	150,444	21,912	761,650	5.0	44.2	886	154	1,040
Scranton, Pa.	19,287	4,307	150,000	7.8	19.5	113	40	153
Seattle, Wash.	100,697	11,800	403,770	4.0	68.5	773	222	995
Somerville, Mass. ...	11,647	2,516	100,773	8.7	4.2	90	11	101
South Bend, Ind. ...	26,491	3,439	109,000	4.1	19.8	202	116	318
Spokane, Wash. ...	32,594	5,629	135,000	4.2	41.5	161	509	670
Springfield, Mass. ...	29,601	3,813	155,000	5.2	31.7	232	17	249
St. Louis, Mo.	151,985	24,813	840,965	5.5	61.2	949	101	1,050
St. Paul, Minn.	69,250	8,147	301,700	4.3	52.2	275	508	783
Syracuse, N. Y.	46,763	5,892	220,811	4.7	25.0	237	156	393
Tacoma, Wash.	30,904	4,411	110,000	3.6	46.5	211	583	794
Tampa, Fla.	25,802	5,141	101,161	3.9	19.0	300	161	461
Toledo, O.	76,610	7,518	315,000	4.1	37.0	451	146	597
Trenton, N. J.	28,287	4,749	123,000	4.3	8.0	140	20	160
Tulsa, Okla.	37,767	7,309	160,000	4.2	21.1	281	224	505
Utica, N. Y.	18,370	2,759	110,000	6.0	16.0	146	28	174
Washington, D. C. ...	145,545	16,122	650,000	4.5	70.0	732	124	856
Waterbury, Conn. ...	16,835	2,555	107,300	6.4	28.2	53	172	225
Wichita, Kan.	32,142	5,080	115,000	3.6	20.0	230	150	380
Wilmington, Del. ...	22,817	3,652	107,000	4.7	9.8	119	40	159
Worcester, Mass. ...	30,218	3,817	195,000	6.4	38.4	256	230	486
Yonkers, N. Y.	22,142	2,445	149,051	6.7	19.0	232	13	245
Youngstown, O.	33,255	3,740	180,000	5.4	33.7	284	136	420

Total, 95 Cities. 7,062,930 971,354 39,728,720 5.6 4,488.7 43,741 22,530 66,271

¹—Total passenger car and truck registrations furnished by The Reuben H. Donnelley Corporation as of July 1, 1938.
²—Figures furnished by the city engineers of all cities surveyed by the Automobile Manufacturers Association, as of January 1, 1939.
³—U. S. Census Bureau's estimate as of July 1, 1937.
⁴—Registrations on entire island of Oahu. *—Including Hollywood.
⁵—Figures for area and street mileage are as of January 1, 1937 Nashville population figure as of Jan. 1, 1937.

43,297,000 Motor Vehicles 68% of Total in United States

(Figures as of December 31st, 1938, from Automotive-Aeronautics Trade Division)

Country	Passenger Cars	Buses	Trucks	Diesel Units	Total Registrations	Total Population	Population Per Vehicle
Aegean Islands (Italian)†...	221	46	115	.....	382	132,638	347
Afghanistan†.....	400	.....¹	2,000	.....	2,400	12,000,000	5,000
Alaska.....	2,668	.....*	1,488	.....*	4,156	75,000	18
Albania.....	404	114	412	40	970	1,050,000	1,080
Algeria.....	59,000	1,475	8,000	555	69,030	7,234,684	105
Anglo-Egyptian Sudan†.....	2,250	.....¹	2,250	.....	4,500	6,000,000	1,333
Angola.....	1,370	60	2,490	.....*	3,920	3,225,015	823
Antigua.....	249	6	58	1	314	33,060	105
Arabia:							
Aden Colony.....	602	56	86	0	744	100,000	134
Aden Protectorate.....	200	20	10	0	230	50,000	217
Kuwait.....	163	2	31	0	196	80,000	409
Muscat.....	32	0	1	0	33	500,000	15,150
Saudi Arabia.....	775	350	450	.....	1,575	4,500,000	2,860
Yemen.....	60	45	40	1	146	875,000	6,000
Argentina.....	206,000	9,800	57,800	1,700	275,300	12,564,301	46
Australia†.....	578,000	.....¹	221,750	.....	799,750	6,806,752	9
Austria (Included with Germany)							
Azores.....	744	100	44	0	888	253,935	26
Bahamas.....	1,342	5	247	.....*	1,594	66,908	42
Bahrain ²	136	1	32	.....	169	120,000	71 ²
Barbados†.....	2,107	104	333	.....	2,544	188,294	74
Belgian Congo.....	3,505	.....*	3,765	70	7,340	13,740,499	1,870
Belgium.....	154,130	1,506	76,896	1,354	233,886	8,299,940	130
Bermuda.....	2	7	54	1	64	30,951	484
Bolivia.....	1,815	50	1,748	.....	3,613	3,282,736	909
Borneo, British North.....	305	.....	247	.....	552	290,526	526
Brazil.....	108,000	4,050	57,850	400	170,300	47,795,000	281
British East Africa:							
Kenya.....	8,616	220	2,367	136	11,339	3,267,478	288
Tanganyika.....	2,953	.....*	1,731	92	4,776	5,146,886	1,078
Uganda.....	2,507	143	2,236	178	5,064	3,711,494	73
Zanzibar.....	324	260	42	1	627	244,000	38 ²
British Guiana.....	1,418	149	267	1	1,835	322,898	176
British Honduras.....	127	0	176	.....*	303	56,893	184
British Malaya.....	32,232	2,376	10,054	124	44,786	5,137,474	118
British Somaliland.....	41	260	0	0	301	344,768	1,145
British South Africa:							
Basutoland.....	561	.....	161	.....	722	562,311	779
Bechuanaland.....	374	.....	196	.....	570	265,756	466
Northern Rhodesia.....	4,464	0	2,146	0	6,610	1,383,000	209
Southern Rhodesia.....	14,316	.....	4,899	.....	19,215	1,305,635	68
Swaziland†.....	435	.....¹	125	.....	560	156,715	279
British West Africa:							
Gambia.....	162	0	215	0	377	199,520	529
Gold Coast.....	2,068	19	4,583	69	6,739	3,700,267	548
Nigeria.....	4,243	4	3,514	62	7,823	20,190,771	581
Sierra Leone.....	425	12	228	0	665	1,672,067	2,514
Bulgaria.....	2,503	542	1,495	166	4,706	6,319,232	1,344
Burma.....	13,875	4,255	2,954	125	21,209	14,667,146	691
Canada.....	1,155,682	2,368	216,827	256	1,375,133	11,120,000	8
Canary Islands.....	3,843	686	1,670	23	6,222	632,275	102
Cayman Islands.....	56	3	15	0	74	6,700	91
Ceylon.....	21,044	2,521	4,057	367	27,989	5,712,000	204
Chile.....	30,772	1,562	11,571	291	44,196	4,597,254	104
China.....	18,370	3,197	23,629	726	45,922	422,527,000	9,201
Chosen.....	2,700	2,900	3,900	.....*	9,500	22,047,836	2,321
Colombia.....	15,105	2,860	8,434	38	26,437	8,390,950	318
Cook Islands.....	48	1	45	0	94	16,350	174

*Separate figures not available. **Included with passenger cars. †Included with trucks. ‡—As of January 1, 1936. —January 1, 1937. †From "The American Automobile" 1939 World Motor Census. ‡Latest available, January 1, 1935. §January 1, 1938.

Vehicles in World

Increase 1.4% Over Last Year

Division, Department of Commerce, and from The American Automobile)

Country	Passenger Cars	Buses	Trucks	Diesel Units	Total Registrations	Total Population	Population Per Vehicle
Costa Rica†	2,263	233	787	.....	3,283	591,862	180
Cuba.....	26,789	2,998	14,065	.....*	43,852	4,046,706	92
Cyprus.....	2,299	**	**	0	2,299	369,000	161
Czechoslovakia.....	54,688	1,663	16,397	420	73,168	9,807,096	134
Danzig.....	2,741	59	924	.....*	3,724	407,517	109
Denmark.....	111,030	1,664	41,504	90	154,288	3,749,000	24
Dominica.....	60	0	23	1	84	48,280	575
Dominican Republic.....	1,679	69	832	40	2,620	1,567,708	598
Ecuador.....	1,678	465	1,614	37	3,794	2,758,505	728
Egypt.....	29,382	1,227	2,847	350	33,806	15,904,525	470
Eritrea‡	202	.....	93	.....	295	621,776	2,109
Estonia.....	3,209	225	2,373	106	5,913	1,131,200	191
Ethiopia‡	300	.....	300	10	610	7,500,000	12,300
Faroe Islands.....	25	.....	78	0	103	25,744	250
Fiji Islands.....	1,186	292	548	1	2,027	198,379	98
Finland.....	24,735	2,837	17,706	19	45,297	41,905,168	92
France.....	1,745,000	38,500	450,000	17,800	2,251,300	3,807,163	17
French Cameroon.....	871	.....*	2,022	.....*	2,893	2,516,623	871
French Equatorial Africa.....	1,000	.....*	1,400	.....*	2,400	3,422,815	1,426
French Guiana.....	317	6	123	0	446	30,876	69
French Indo-China.....	18,045	.....*	4,866	0	22,911	23,250,000	1,014
French Oceania.....	337	32	116	16	501	39,713	79
French Somaliland.....	450	2	380	0	832	69,782	84
French West Africa.....	4,000	.....*	9,000	.....*	13,000	14,713,748	1,132
Germany.....	1,416,000	12,600	325,000	62,600	1,816,200	77,028,433	42
Gibraltar.....	1,066	43	202	0	1,311	21,372	16
Greece.....	6,600	2,125	4,920	355	14,000	7,020,000	501
Grenada.....	429	.....*	126	0	555	87,105	157
Guadeloupe.....	1,775	70	405	0	2,250	304,239	135
Guam.....	206	4	207	1	418	20,899	50
Guatemala.....	2,347	562	900	118	3,927	2,466,227	628
Haiti.....	1,817	.....*	610	.....*	2,427	3,000,000	1,235
Hawaiian Islands.....	50,337	665	12,046	.....*	63,048	384,437	6
Honduras.....	649	14	621	0	1,284	962,700	750
Hong Kong.....	4,359	62	945	169	5,535	988,190	178
Hungary.....	18,896	434	3,733	293	23,356	10,076,315	431
Iceland.....	800	110	1,060	.....*	1,970	116,948	59
India (except Burma).....	69,590	20,464	15,437	1,460	106,951	338,170,632	3,164
Iran.....	3,772	370	7,380	.....*	11,522	15,055,115	1,307
Iraq.....	4,144	.....*	2,215	.....*	6,359	4,000,000	629
Ireland.....	54,000	500	10,000	340	64,840	2,944,000	45
Italy.....	345,000	9,900	114,500	.....*	469,400	43,691,000	93
Jamaica.....	7,662	113	2,211	18	10,004	1,138,558	114
Japan.....	106,000	29,800	45,000	100	180,900	70,258,200	389
Kwantung, Leased Territory.....	1,000	240	650	10	1,900	1,657,000	872
Latvia.....	3,399	309	2,946	61	6,715	1,950,502	290
Liberia.....	75	.....	50	.....	125	1,500,000	12,000
Libya‡	1,230	45	230	.....	1,505	717,000	477
Lithuania.....	2,301	83	496	543	3,423	2,549,668	745
Luxemburg.....	7,153	108	2,763	80	10,104	296,913	29
Macao—Portuguese Colony.....	169	44	60	14	287	157,805	550
Madagascar.....	6,000	.....*	3,500	.....*	9,500	3,797,936	400
Madeira.....	780	125	275	0	1,180	211,601	179
Maltese Islands.....	3,443	600	911	1	4,955	264,663	53
Manchukuo.....	5,800	4,300	7,200	275	17,575	34,200,900	1,946
Martinique.....	2,320	100	555	0	2,975	246,912	83
Mauritius.....	2,255	136	401	41	2,833	413,459	146
Mexico.....	75,170	6,170	18,030	100	99,470	18,852,086	189

*Separate figures not available. **Included with passenger cars. †—Included with trucks. ‡—As of January 1, 1936. §—January 1, 1937. ¶From "The American Automobile" 1939 World Motor Census. ††Latest available, January 1, 1935. ‡‡January 1, 1938.

World Motor Vehicles 43,297,000

Country	Passenger Cars	Buses	Trucks	Diesel Units	Total Registrations	Total Population	Population Per Vehicle
Monaco.....	1,802	75	199	9	2,085	22,994	11
Montserrat.....	87	0	25	0	112	13,161	118
Morocco, French.....	28,000	790	7,500	210	36,500	5,874,888	161
Morocco, International Zone.....	365	8	128	0	501	65,000	130
Morocco, Spanish ¹	2,000	350	1,400	.....	3,750	795,000	212
Netherlands Guiana.....	275	50	59	1	385	171,396	445
Netherlands Indies.....	51,615	9,115	12,729	258	73,717	60,727,233	825
Netherlands.....	96,000	3,059	50,805	2,522	152,386	8,639,595	57
Netherlands West Indies.....	3,054	429	882	0	4,365	166,000	38
New Caledonia ¹	672	12	379	.....	1,063	53,245	50
Newfoundland.....	3,966	70	1,012	0	5,048	288,500	57
New Hebrides ¹	46	.....	60	.....	106	43,000	406
New Zealand.....	209,060	1,061	51,591	138	261,850	1,591,974	6
Nicaragua.....	615	28	199	.....	842	1,133,500	1,342
Niue ¹	6	0	8	.....	14	4,404	293
Norway.....	54,183	3,490	31,980	*	89,653	2,907,000	32
Nyasaland.....	879	13	602	33	1,527	1,639,329	1,074
Palestine.....	5,900	980	2,750	*	9,630	1,401,794	146
Panama and Canal Zone.....	10,462	551	2,143	2	13,158	534,631	41
Papua ¹	87	.....	89	.....	176	276,366	1,570
Paraguay ¹	1,500	.....	600	.....	2,100	931,800	444
Peru ¹	11,332	1,052	6,306	.....	18,690	6,500,000	348
Philippine Islands.....	31,884	4,542	14,746	*	51,172	16,000,988	132
Poland.....	32,000	2,200	10,100	*	44,300	34,769,400	784
Portugal.....	35,400	1,570	11,100	320	48,390	6,825,883	141
Portuguese East Africa.....	3,457	282	2,584	28	6,351	4,006,000	638
Portuguese Guinea ¹	155	.....	386	.....	541	390,400	722
Portuguese Timor.....	67	.....	35	.....	102	460,655	4,516
Puerto Rico ¹	16,500	.....	5,000	.....	21,500	1,723,534	80
Reunion.....	1,100	*	400	*	1,500	67,500	132
Rumania.....	19,000	3,300	4,700	70	27,070	19,535,398	722
St. Kitts-Nevis.....	302	15	75	0	392	37,521	96
St. Lucia.....	166	40	2	*	208	66,230	319
St. Pierre and Miquelon ¹	38	.....	64	.....	102	4,175	41
St. Vincent ¹	190	30	29	.....	249	56,511	227
Salvador, El.....	2,450	311	340	166	3,267	1,597,549	488
Samoa, American.....	21	0	18	0	58	10,561	182
Samoa, Western.....	152	22	121	0	295	57,316	194
Seychelles.....	90	20	42	7	159	30,940	195
Siam.....	5,700	690	4,750	45	11,185	14,464,489	1,294
Solomon Islands (British) ¹	3	.....	48	.....	51	44,113	865
Southwest Africa.....	3,000	.....	1,300	.....	4,300	212,187	49
Spain ¹	82,875	9,375	28,500	4,250	125,000	24,583,096	196
Spitzbergen.....	1	0	1	0	2	2,415	1,208
Sweden.....	156,573	4,894	57,734	*	219,201	6,266,888	29
Switzerland.....	58,000	750	15,300	1,600	75,650	4,167,100	55
Syria.....	8,716	482	1,661	*	10,859	2,367,734	218
Taiwan (Formosa).....	1,390	234	1,242	0	2,866	5,315,642	1,855
Togo.....	150	*	400	.....	550	762,629	1,387
Tonga.....	76	.....	43	.....	119	31,600	368
Transjordan.....	335	24	230	*	589	325,000	552
Trinidad & Tobago.....	5,729	*	3,099	4	8,832	456,006	52
Tunisia.....	16,060	175	3,083	164	19,482	2,608,300	134
Turkey.....	3,970	743	6,229	172	11,114	16,200,694	1,458
Turks & Caicos Islands.....	19	0	4	0	23	5,600	243
Union of South Africa.....	302,069	1,399	46,163	650	350,281	8,488,300	24
United Kingdom:							
Channel Islands.....	3,044	145	1,103	.....	4,292	93,061	22
England.....	1,587,386	71,768	417,715	.....	2,076,869	38,173,550	18
Isle of Man.....	3,894	.....	483	.....	4,377	60,000	11
Northern Ireland.....	41,184	481	9,548	303	51,516	1,279,753	25
Scotland.....	136,374	9,459	40,404	.....	186,237	4,916,000	26
Wales.....	74,345	4,539	20,803	.....	99,687	2,176,050	22
U. S. S. R.....	85,418	*	587,534	*	672,952	170,200,000	252
Uruguay.....	46,678	1,954	14,868	150	63,650	2,082,367	33
Venezuela.....	18,400	.....	14,600	.....	33,000	3,491,159	106
Virgin Islands.....	460	.....	217	0	702	28,012	51
Yugoslavia.....	13,092	612	2,170	2,693	18,567	15,400,177	829
Total Outside U. S.	9,982,393	323,736	3,399,737	106,041	13,811,907	1,959,771,744	142
United States.....	25,151,311	132,002	4,202,367	.....	29,485,680	130,085,000	4
WORLD TOTAL.....	35,133,704	455,738	7,602,104	106,041	43,297,587	2,089,856,744	48

*Separate figures not available. **Included with passenger cars. ¹Included with trucks. ²As of January 1, 1936. ³January 1, 1937. ⁴From "The American Automobile" 1939 World Motor Census. ⁵Latest available, January 1, 1935. ⁶January 1, 1938.

82% of State Highway Mileage Is Surfaced

(Figures from "American Highways," January, 1939)

Status of Road Improvements on State Highway Systems as of January 1st, 1938

STATE	Mileage State System	Pave- ment of all Types	Macadam and Gravel- Treated- Low Cost Mix	Sand Clay, Macadam and Gravel, Untreated	Total Sur- faced	Per Cent Surfaced	Per Cent Dustless or Better
Alabama.....	6,500	1,012	1,499	3,911	6,422	98	38
Arizona.....	3,505	203	1,889	1,093	3,185	90	56
Arkansas.....	9,229	1,715	754	5,271	7,740	83	18
California.....	12,846	4,601	7,463	33	12,097	94	93
Colorado.....	9,419	536	2,618	2,984	6,138	66	33
Connecticut.....	2,727	1,280	1,354	.....	2,634	96	96
Delaware.....	3,867	1,263	27	496	1,786	46	33
Florida.....	13,885	753	3,180	58	3,991	28	28
Georgia.....	10,739	2,731	2,255	1,306	6,292	58	46
Idaho.....	4,696	203	2,055	1,337	3,595	76	48
Illinois.....	18,254	13,178	4,227	474	17,879	98	95
Indiana.....	9,183	4,674	2,821	1,688	9,183	100	81
Iowa.....	8,433	4,879	566	2,839	8,284	91	57
Kansas.....	9,322	1,522	3,364	3,729	8,615	92	52
Kentucky.....	8,914	1,202	4,207	3,003	8,412	94	60
Louisiana.....	18,430	2,442	1,439	9,779	13,660	74	21
Maine.....	2,712	766	1,714	127	2,607	96	91
Maryland.....	4,186	2,026	2,064	73	4,163	99	97
Massachusetts.....	1,894	1,684	201	9	1,894	100	99
Michigan.....	9,486	4,907	1,073	3,457	9,437	99	63
Minnesota.....	11,353	2,858	3,963	3,929	10,750	94	60
Mississippi.....	6,300	1,194	895	1,891	3,980	60	33
Missouri.....	17,193	4,245	2,260	7,961	14,466	84	37
Montana.....	5,320	25	4,110	355	4,490	84	77
Nebraska.....	11,140	1,085	1,325	5,537	7,947	71	21
Nevada.....	5,142	55	2,272	218	2,545	49	45
New Hampshire.....	3,473	477	2,845	151	3,473	100	95
New Jersey.....	1,658	1,625	17	.....	1,642	99	99
New Mexico.....	12,472	2,162	527	1,503	4,192	33	21
New York.....	12,695	10,462	1,949	241	12,652	99	97
North Carolina.....	10,328	3,472	4,435	1,824	9,731	94	76
North Dakota.....	7,309	26	700	5,455	6,181	84	9
Ohio.....	15,742	7,333	4,932	3,461	15,726	99	77
Oklahoma.....	8,582	3,039	1,093	3,014	7,146	82	48
Oregon.....	6,993	2,064	2,310	1,579	5,953	85	62
Pennsylvania.....	38,034	7,951	17,230	903	26,084	68	66
Rhode Island.....	1,149	542	242	.....	784	68	68
South Carolina.....	6,684	2,437	2,740	585	5,762	86	77
South Dakota.....	5,989	300	1,150	3,680	5,130	85	24
Tennessee.....	7,816	2,503	2,422	2,819	7,744	99	62
Texas.....	21,221	5,922	9,635	1,958	17,515	82	73
Utah.....	5,105	361	1,380	1,969	3,710	72	34
Vermont.....	1,752	490	629	633	1,752	100	63
Virginia.....	9,305	1,464	6,131	1,543	9,138	98	81
Washington.....	6,012	1,786	2,276	1,460	5,522	91	67
West Virginia.....	34,146	3,426	1,976	8,897	14,299	15	41
Wisconsin.....	10,001	4,629	5,238	83	9,940	99	98
Wyoming.....	3,700	49	2,883	429	3,361	90	79
Totals and Avg..	454,841	123,559	132,335	103,745	359,639	82	60

State Highway

For Highway and Bridge Work Under

(Source: U. S. Bureau of Public Roads; Compiled for

NET INCOME FROM CURRENT STATE REVENUE SOURCES

State	Balance on Hand January 1, 1937 ¹	Reserves for Debt Service	Highway User Revenue	Motor Fuel Taxes	Motor Vehicle Regis. Fees, Etc.	Motor Carrier Taxes	Tolls on State Highway Bridges, Ferries, Etc.	State Road Tax Levies and Appro- priations	Total from Current State Revenue Sources
Ala.....	1,033	1,421	6,587	3,326	159	.....	.....	.....	10,072
Ariz.....	273	.....	2,940	908	147	.....	.....	.....	3,995
Ark.....	3,052	421	8,802	3,140	2	616	.....	.....	12,560
Calif.....	4,607	.....	30,168	7,708	46	.....	31 ²	.....	37,953
Colo.....	21,057	135	5,334	1,066	282	.....	305	.....	6,987
Conn.....	6,009	.....	9,236	5,160	110	7	.....	.....	14,513
Del.....	457	62	2,023	1,173	.....	.....	.....	.....	3,196
Fla.....	-2,568	.....	9,478	.....	.....	.....	.....	.....	9,478
Ga.....	6,785	.....	12,569	1,784	270	.....	.....	.....	14,623
Idaho.....	789	34	4,059	289	81	.....	181	.....	4,610
Ill.....	20,363	.....	35,527	20,452	.....	.....	.....	.....	55,979
Ind.....	1,608	.....	14,355	3,907	400	.....	.....	.....	18,662
Iowa.....	5,070	.....	7,190	10,598	.....	.....	.....	.....	17,788
Kansas.....	4,089	877	9,797	3,566	882	.....	.....	.....	14,247
Ky.....	5,402	176	12,669	2,211	422	1,877	.....	.....	17,179
La.....	-4,597	829	8,970	4,436	.....	11	504 ³	.....	13,921
Me.....	2,935	691	5,531	3,713	.....	265	61 ⁴	.....	9,515
Md.....	1,493	370	9,836	3,993	.....	.....	264	.....	14,093
Mass.....	7,678	3,184	19,786	5,473	.....	.....	.....	.....	25,259
Mich.....	2,559	29,538	22,699	455	148	.....	.....	.....	23,302
Minn.....	5,375	677	10,195	8,360	.....	.....	.....	.....	18,555
Miss.....	8,141	1,707	5,692	212	.....	.....	.....	.....	5,904
Mo.....	2,983	76	11,037	9,013	853	.....	.....	.....	20,903
Mont.....	692	67	4,630	.....	.....	.....	.....	.....	4,630
Neb.....	574	.....	6,350	732	.....	.....	.....	.....	7,082
Nev.....	117	.....	1,173	257	186	.....	.....	.....	1,616
N. H.....	100	650	3,287	2,170	.....	150	.....	.....	5,607
N. J.....	12,796	39,953	15,916	17,481	84	.....	.....	.....	33,481
N. M.....	1,070	194	3,906	665	104	.....	1	.....	4,675
N. Y.....	15,284	46,884	25,317	41,821	.....	728	.....	.....	67,866
N. Car.....	8,160	8,139	22,435	7,772	232	.....	.....	.....	30,439
N. Dak.....	713	.....	1,810	815	10	.....	4 ⁴	.....	2,639
Ohio.....	11,637	.....	19,329	7,148	571	.....	.....	.....	27,048
Okla.....	-2,895	.....	7,905	1,603	843	.....	.....	.....	10,351
Oregon.....	1,049	.....	9,781	2,937	824	.....	.....	.....	13,542
Penn.....	18,134	8,488	42,636	47,130	8	.....	.....	.....	89,774
R. I.....	1,152	1,274	3,096	2,601	.....	.....	.....	.....	5,697
S. Car.....	7,451	323	9,067	1,548	93	.....	.....	.....	10,708
S. Dak.....	1,350	.....	2,700	325	428	.....	3	.....	3,456
Tenn.....	7,156	9,348	11,351	3,537	234	749	.....	.....	15,851
Texas.....	9,449	.....	20,492	6,725	7	47	.....	.....	27,271
Utah.....	242	6,250	3,445	603	81	.....	.....	.....	4,129
Vt.....	1,604	203	2,503	2,404	.....	.....	.....	.....	4,907
Va.....	-2,406	1,957	15,845	5,351	145	.....	.....	.....	21,341
Wash.....	2,542	1,766	15,192	4,078	.....	.....	10	.....	19,280
W. Va.....	2,644	3,856	8,485	5,936	91	.....	2,496 ¹³	.....	17,008
Wis.....	10,661	5	19,865	11,667	.....	.....	.....	.....	31,532
Wyo.....	684	77	1,838	589	193	.....	23	.....	2,643
Total.....	214,553	169,632	542,813	276,840	7,936	4,450	3,828	.....	835,867

¹—In order to obtain uniform data on state highway finance for all states, the reported income and expenditures of the state highway departments have been amplified, when necessary, by the addition of transactions relating to state highway debt service, balances in sinking funds and other reserves for debt service, income and expenditures of special bridge and grade separation authorities, expenditures of local authorities on state highways, and other adjustments.

²—Wherever possible, balances in sinking funds and other reserves for the payment of principal and interest on state highway obligations have been segregated from other highway funds. Minus sign indicates a deficit.

³—Includes interest on deposits and investments, railway participation in grade crossing eliminations and miscellaneous unclassified receipts.

⁴—These columns include all payments through the agency of the Bureau of Public Roads.

Income in 1937

Supervision of State Highway Departments

(Calendar Year from Reports of State Authorities)¹

NET INCOME FROM OTHER THAN CURRENT STATE REVENUE SOURCES

Miscellaneous State Highway Income ¹	Federal Regular Pay- ments	Federal Funds For Road Construction ² Advances to Trust Fund ³	Other Federal Funds Received ⁴	Funds Transferred From Local Government Units For Work on State High- ways	For Local Roads and Streets	Income from Issue of Bonds, Notes, Etc.	Total from Other Than State Revenue Sources	THOUSANDS OF DOLLARS	
								Total Income	State
16	2,805	-200	44	742	.....	3,895	7,302	17,374	Ala.
54	2,555	-350	.....	.....	.....	.....	2,269	6,264	Ariz.
4	5,684	-400	.....	.....	.....	.....	5,288	17,948	Ark.
86	11,260	.....	1	51	257	.....	11,655	49,608	Calif.
236	3,519	.....	1,000	70	.....	.....	4,825	11,812	Colo.
209	2,036	.....	83	8,839	.....	.....	11,167	25,680	Conn.
57	1,006	.....	.....	.....	.....	.....	1,063	4,259	Dela.
.....	2,613	-300	75	37	.....	.....	2,425	11,903	Fla.
32	5,126	.....	.....	.....	.....	.....	5,158	19,781	Ga.
115	2,327	-300	.....	46	.....	.....	2,188	6,798	Idaho
299	15,649	.....	.....	.....	.....	.....	15,948	71,927	Ill.
137	7,602	-1,400	31	85	.....	.....	6,455	25,117	Ind.
4	7,602	.....	.....	.....	.....	2,787	10,393	28,181	Iowa
11	5,015	-1,500	74	36	15	.....	3,651	17,898	Kans.
113	4,490	-450	.....	56	.....	.....	4,209	21,388	Ky.
13	3,269	-200	.....	1	.....	11,592	14,675	28,596	La.
374	3,795	-125	.....	1,268	.....	1,012	6,324	15,839	Maine.
185	2,091	.....	556	135	.....	1,201	4,168	18,261	Md.
170	6,309	.....	431	215	3,014	.....	10,139	35,398	Mass.
1,210	6,282	-1,400	.....	16	.....	.....	6,108	29,410	Mich.
31	7,158	-1,200	.....	.....	.....	.....	5,989	24,544	Minn.
17	4,099	-350	9,160	100	.....	10,286	23,312	29,216	Miss.
297	8,406	-1,000	285	87	.....	.....	8,075	28,978	Mo.
17	3,481	-200	15	1	.....	.....	3,314	7,944	Mont.
10	5,353	-1,550	.....	8	.....	.....	3,821	10,903	Neb.
57	3,486	-400	.....	22	.....	50	3,215	4,831	Nev.
9	1,437	.....	60	282	80	.....	1,868	7,475	N. H.
1,881	4,974	.....	.....	181	.....	.....	7,036	40,517	N. J.
46	3,969	-800	.....	6	.....	6,511	9,732	14,407	N. M.
2,203	13,931	.....	521	499	.....	19,262	36,418	104,284	N. Y. ⁵
13	6,007	.....	.....	.....	.....	6,020	36,459	36,459	N. Car.
.....	4,218	-700	.....	21	22	250	3,811	6,450	N. Dak.
311	9,607	-1,000	22	25	.....	.....	8,965	36,013	Ohio
29	7,177	-600	.....	46	.....	.....	6,652	17,003	Okla.
63	4,292	.....	298	80	.....	1,000	5,733	19,275	Ore.
836	19,563	.....	580	.....	344	.....	21,323	111,097	Penn.
65	1,196	.....	.....	.....	.....	.....	1,261	6,958	R. I.
5	4,576	-750	.....	1,770	.....	4,077	9,678	20,386	S. Car.
.....	4,517	-500	.....	.....	.....	.....	4,017	7,473	S. Dak.
3	5,127	.....	.....	.....	.....	69	5,199	21,050	Tenn.
101	14,318	-1,500	404	16	.....	.....	13,339	40,610	Texas
3	2,452	-200	.....	49	.....	.....	2,304	6,433	Utah
2	1,587	.....	21	259	56	.....	1,925	6,832	Vt.
296	5,788	.....	.....	.....	.....	.....	6,084	27,425	Va.
50	4,143	.....	613	.....	.....	.....	4,806	24,086	Wash.
.....	2,645	.....	492	4	.....	3,017	6,158	23,166	W. Va.
97	7,983	-600	.....	3,163	140	.....	10,783	42,315	Wis.
66	3,740	-500	196	8	.....	.....	3,510	6,153	Wyo.
9,835	266,275	-18,475	14,962	18,224	3,928	65,009	359,758	1,195,625	Total

⁵—Repayments of trust fund advances are indicated by minus signs.

⁶—Includes federal oil royalties and grants from federal agencies for emergency construction and work relief on highways. Does not include Federal grants or expenditures for highways made through agencies other than the state highway departments.

⁷—In order to provide a complete statement of income and expenditures for state highways in New York, the reported transactions of the Division of Highways have been combined with those relating to debt service and those of other state agencies which expend funds on highways, bridges, and grade crossing elimination.

⁸—\$31,000 in "other taxes." ⁹—\$504,000 in "other taxes."

¹⁰—\$6,000 in appropriations. ¹¹—\$4,000 in appropriations.

¹²—\$2,200,000 in appropriations and \$296,000 in "other taxes."

State Highway Expenditures

(Source: U. S. Bureau of Public Roads; Compiled for Calendar)

EXPENDITURES FOR STATE-ADMINISTERED HIGHWAYS

THOUSANDS OF DOLLARS	Total Capital Outlay	CAPITAL OUTLAY ¹			Total Main- tenance ²	Net Admini- strative, Engineering, and Miscellaneous			State Police ³
		Acqui- sition of Right- of-Way	Con- struction of Roads	Constr. of Bridges, Etc.		Expen- ditures for Equip- ment ⁴	Engineer- ing, and Miscel- laneous	Highway	
State									
Alabama.....	9,988	.....	7,813	2,145	2,039	204	704	425	
Arizona.....	4,461	231	4,013	217	1,396	175	367	141	
Arkansas.....	4,745	.....	4,745	.....	3,144	0	491	169	
California.....	28,703	2,341	23,007	3,355	10,197	372	2,079	.....
Colorado.....	19,096	.....	19,096	.....	1,548	367	894	298	
Connecticut.....	10,873	.....	7,943	2,930	3,024	219	1,389	325	
Delaware.....	1,630	99	1,243	288	749	130	157	210	
Florida.....	6,429	.....	6,429	.....	3,413	-50	432	39	
Georgia.....	17,589	4	16,859	726	2,099	0	497	.....
Idaho.....	5,153	.....	5,153	.....	1,686	-28	328	4	
Illinois.....	21,378	.....	21,378	.....	5,364	878	3,373	1,436	
Indiana.....	14,538	471	10,034	4,033	5,218	70	1,485	.....
Iowa.....	14,816	651	11,521	2,644	3,392	808	493	.....
Kansas.....	9,157	565	8,592	.....	4,618	-7	743	136	
Kentucky.....	9,473	.....	9,430	43	9,963	1,128	1,023	185	
Louisiana.....	7,110	.....	7,110	.....	3,071	566	362	412	
Maine.....	7,685	141	6,389	1,155	4,075	87	360	277	
Maryland.....	6,337	417	4,847	1,073	1,672	372	818	378	
Massachusetts.....	11,238	734	6,281	4,223	3,220	0	449	350	
Michigan.....	18,454	2,287	13,822	2,345	7,486	330	387	.....
Minnesota.....	16,540	2,057	12,009	2,474	6,759	351	618	281	
Mississippi.....	25,161	1,192	23,969	.....	1,850	281	264	38	
Missouri.....	15,743	775	9,205	5,763	5,151	0	1,467	387	
Montana.....	4,585	204	2,634	1,060	1,720	188	474	.....
Nebraska.....	7,092	231	5,690	1,168	2,944	0	409	34	
Nevada.....	3,308	28	2,967	313	784	150	243	38	
New Hampshire.....	3,025	103	2,276	646	3,028	-21	558	75	
New Jersey.....	6,251	1,083	3,626	1,542	2,974	18	774	.....
New Mexico.....	9,045	25	7,856	1,164	1,642	416	1,146	66	
New York ⁵	31,820	463	24,283	7,074	8,627	0	852	1,329	
North Carolina.....	11,334	.....	11,334	.....	13,648	187	1,572	612	
North Dakota.....	3,458	25	2,507	926	1,408	169	274	76	
Ohio.....	16,863	827	16,036	.....	13,097	199	2,095	541	
Oklahoma.....	15,094	367	14,727	.....	3,162	966	1,800	.....
Oregon.....	8,457	622	6,384	1,451	3,615	263	1,012	327	
Pennsylvania.....	32,543	526	25,586	6,431	36,351	841	12,080	2,624	
Rhode Island.....	1,977	165	1,492	320	1,197	87	309	150	
South Carolina.....	11,169	360	10,809	.....	2,631	72	672	282	
South Dakota.....	5,580	.....	4,879	701	1,757	0	339	74	
Tennessee.....	5,351	.....	4,681	670	2,385	-64	820	.....
Texas.....	29,320	.....	29,320	.....	8,933	409	1,339	443	
Utah.....	3,266	118	3,148	.....	1,937	-313	205	144	
Vermont.....	2,856	.....	2,833	23	1,356	0	198	.....
Virginia.....	17,056	583	14,267	2,206	6,788	96	933	.....
Washington.....	8,503	584	5,101	2,818	3,460	91	810	453	
West Virginia.....	8,088	749	7,339	.....	5,673	596	539	.....
Wisconsin.....	14,546	676	13,870	.....	6,809	-9	821	.....
Wyoming.....	4,815	.....	4,041	774	820	117	180	64	
Subtotal ¹⁴.....	.....	19,704	469,574	62,701	.....	.....	.....	.....	.....
Total.....	551,979	.....	.....	.....	227,877	10,711	49,643	12,752	.....

¹—In order to obtain uniform data on state highway finance for all states, the reported income and expenditures of the State Highway Departments have been amplified, when necessary, by the addition of transactions relating to state highway debt service, balances in sinking funds and other reserves for debt service, income and expenditures of special bridge and grade separation authorities, expenditures of local authorities on state highways, and other adjustments.

²—Segregation of construction expenditures by class of expenditure and system on which expended was incomplete in many states. Where expenditures were not segregated the total is given under the headings "construction of roads."

³—Includes regular maintenance of roads and bridges, snow removal, highway marking and signing, and maintenance of drawbridges, ferries, and other highway utilities.

⁴—In a large number of states equipment costs are charged to construction and maintenance projects, generally through a system of rentals. In these cases only the net debit or credit in the equipment account is shown. Credits are indicated by a minus sign.

⁵—The classification of administrative, engineering, and miscellaneous expenditures is not uniform, as some states charge all or a large portion of overhead costs to construction and maintenance.

⁶—Expenditures for state highway police are recorded in the case of those states which reported such expenditures as a part of their state highway finances.

Expenditures in 1937

Calendar Year from Reports of State Authorities)¹

OTHER EXPENDITURES OR FUND TRANSFERS										BALANCE ON HAND, DECEMBER 31, 1937 ¹²			THOUSANDS OF DOLLARS
Interest on Obliga- tions ¹	Total Expend- ment of State- Admin- Highway Highways ²	Retire- ment of State Obliga- tions ³	Local Roads Streets ⁴	Other Not on State System ¹⁰	Non- Highway Pur- poses ¹¹	Total Expen- ditures	Highway Funds	Debt Service	Reserves for				
1,830	15,160	1,971	.....	.....	.....	17,131	1,851	846	.....	Alabama			
.....	6,540	.....	141	.....	7	6,688	—151	.....	.....	Arizona			
5,181	13,730	4,161	444	.....	.....	18,335	2,728	258	.....	Arkansas			
2,189	43,540	1,775	4,332	115	.....	49,762	4,453	.....	.....	California			
835	23,038	246	.....	.....	.....	23,284	9,639	81	.....	Colorado			
308	16,138	1,915	2,963	.....	.....	21,016	10,673	.....	.....	Connecticut			
310	3,186	275	31	218	8	3,718	996	64	.....	Delaware			
66	10,329	88	141	.....	21	10,579	—1,244	.....	.....	Florida			
.....	29,185	2,673	108	.....	.....	22,966	3,600	.....	.....	Georgia			
29	7,172	158	.....	.....	.....	7,330	264	27	.....	Idaho			
5,299	37,728	3,920	20,080	.....	7,424	69,152	23,138	.....	.....	Illinois			
.....	21,311	.....	138	.....	83	21,532	5,193	.....	.....	Indiana			
2,390	21,899	5,697	854	.....	.....	28,450	4,801	.....	.....	Iowa			
138	14,785	1,564	3,849	.....	.....	20,198	2,147	519	.....	Kansas			
314	22,086	1,359	339	.....	.....	23,784	2,801	381	.....	Kentucky			
4,629	16,150	2,319	981	.....	.....	19,450	3,529	1,849	.....	Louisiana			
1,085	13,569	1,886	905	.....	.....	16,360	2,622	483	.....	Maine			
688	10,265	2,128	5,265	.....	3	17,661	2,093	370	.....	Maryland			
340	15,597	3,904	7,865	1,179	8,871	37,416	6,617	2,227	.....	Massachusetts			
2,135	28,792	968	261	.....	.....	30,021	902	30,584	.....	Michigan			
1,790	26,339	2,342	858	.....	.....	29,539	502	555	.....	Minnesota			
453	28,047	2,145	171	274	.....	30,637	6,720	1,707	.....	Mississippi			
4,320	27,068	3,000	60	.....	.....	30,128	1,753	156	.....	Missouri			
134	7,420	.....	.....	.....	.....	7,420	784	499	.....	Montana			
.....	10,479	.....	438	.....	.....	10,917	560	.....	.....	Nebraska			
14	4,537	82	513	.....	31	5,163	—215	.....	.....	Nevada			
265	6,930	551	2,014	28	.....	9,523	—2,137	839	.....	New Hampshire			
4,045	14,062	600	14,140	242	8,917	37,961	10,776	44,529	.....	New Jersey			
546	12,861	1,095	.....	.....	.....	13,956	1,548	167	.....	New Mexico			
7,538	50,166	4,452	33,903	6,235	.....	94,756	23,765	47,931	.....	New York ¹⁴			
3,929	31,279	4,973	.....	.....	517	37,769	6,847	9,142	.....	North Carolina			
.....	5,886	250	1,026	.....	.....	6,662	501	.....	.....	North Dakota			
.....	32,795	.....	1,832	.....	244	34,871	12,779	.....	.....	Ohio			
.....	21,022	.....	.....	.....	.....	21,022	—6,914	.....	.....	Oklahoma			
984	14,658	2,800	2,151	45	75	19,729	595	.....	.....	Oregon			
2,918	87,357	2,000	500	110	502	90,469	36,940	10,310	.....	Pennsylvania			
227	3,947	.....	438	29	1,976	6,390	1,618	1,376	.....	Rhode Island			
2,308	17,134	2,496	.....	.....	.....	19,630	7,922	608	.....	South Carolina			
.....	7,679	398	.....	.....	44	8,121	702	.....	.....	South Dakota			
4,416	12,908	575	2,461	.....	40	15,984	8,474	13,096	.....	Tennessee			
.....	40,444	.....	1,969	.....	.....	42,413	7,646	.....	.....	Texas			
280	5,519	2,000	380	.....	.....	7,899	464	4,562	.....	Utah			
292	4,702	425	1,435	8	.....	6,570	1,975	94	.....	Vermont			
204	25,077	.....	.....	.....	9	25,086	—865	2,755	.....	Virginia			
58	13,375	71	8,031	.....	651	22,128	4,049	2,217	.....	Washington			
3,199	18,095	4,523	.....	.....	.....	22,618	3,329	3,719	.....	West Virginia			
.....	22,167	4,107	9,062	215	3,657	39,208	13,773	.....	.....	Wisconsin			
137	6,133	170	.....	.....	1	6,304	538	72	.....	Wyoming			
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Subtotal ¹⁴			
65,824	918,786	75,664	130,477	8,742	33,037	1,166,706	231,081	182,023	Total				

¹—Includes debt service on state highway bonds, notes, etc., and on county or local obligations assumed as reimbursement for local roads added to the state system, payments to sinking fund are not included, as they are merely transfers from highway funds to reserves for debt service.

²—Includes expenditures by or under supervision of state highway departments on local roads and streets, and transfers to local units for work on local roads and streets or for service of local highway obligations, in cases where such transfers were reported as expenditures of the state highway departments.

³—Expenditures on forest roads, park roads, etc., not reported as part of state highway system or as local roads or streets.

⁴—Includes expenditures or transfers for relief of unemployment or destitution, transfers to state general funds, and other non-highway expenditures.

⁵—Wherever possible, balances in sinking funds or other reserves for the payment of principal and interest on state highway obligations have been segregated from other highway funds. Minus signs indicate deficits.

⁶—In order to provide a complete statement of income and expenditures for state highways in New York, the reported transactions of the Division of Highways have been combined with those relating to State Highway Debt Service and those of other state agencies which expend funds on highways, bridges, and grade crossing elimination.

⁷—Incomplete classification of construction and maintenance expenditures shown on this line. See footnotes 2 and 4.

State Highway Income and Ex

For Highway and Bridge Work Under

(Source: U. S. Bureau of Public Roads, compiled for C

State Highway Income — in

CURRENT REVENUE FROM STATE SOURCES

YEAR	Total Current State Highway Revenue	Gasoline Tax Receipts etc. Al- lotted to State Highways	Motor Vehicles Fees, etc. Allotted to State Highways	Motor Carrier Taxes	Tolls on State Highway Bridges, Ferries, Etc.	State Road Tax Levy Receipt	Appropri- ations from State General Fund	Miscel- laneous Revenue
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
1921.....	\$180,550	\$3,359	\$100,233	Not compiled		\$34,739	\$34,982	\$7,237
1922.....	187,210	5,397	107,716	prior to		29,976	35,885	8,236
1923.....	240,257	15,873	147,076	1934		24,348	37,462	15,498
1924.....	274,345	47,811	174,817			18,283	20,084	13,350
1925.....	359,105	89,328	199,845			21,489	33,391	15,052
1926.....	420,226	134,303	224,552			18,279	29,868	13,224
1927.....	478,812	176,770	239,955			18,770	30,795	12,522
1928.....	560,335	234,164	259,135			11,956	42,468	12,612
1929.....	648,815	287,258	278,093			11,431	60,306	11,727
1930.....	761,313	411,109	289,802			11,182	32,136	17,084
1931.....	696,168	386,183	253,403			12,935	22,503	21,144
1932.....	632,199	363,368	211,321			10,885	20,703	25,922
1933.....	540,781	321,414	176,817			7,414	20,300	14,836
1934.....	590,714	376,630	195,071	5,025	2,550	4,709	6,456	273
1935.....	598,010	392,658	188,433	5,955	2,772	1,929	5,914	349
1936.....	669,474	434,876	219,088	6,072	3,850	1,377	3,756	455
1937.....	835,867	542,813	276,840	7,936	4,450	775	2,210	843

State Highway Disbursements —

EXPENDITURES FOR STATE-ADMINISTERED HIGHWAYS

YEAR	Total Capital Outlay	Acquisi- tion, Right of-Way	Con- struction of Roads	Const. of Bridges, etc.	Total Main- tenance	Net Expen- ditures for Equip- ment	Admin- istration Engineer- ing, and Miscel- laneous	State High way Police	Interest on State High- way Obliga- tions	Total State High- way Expendi- tures
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
1921.....	\$284,302				\$64,833	\$8,412	\$16,417		\$10,417	\$384,381
1922.....	287,461				75,340	12,070	19,977	Included	16,053	410,901
1923.....	279,993				75,329	15,556	26,407	in	17,522	414,807
1924.....	382,336				104,806	19,793	31,165	Col.	21,501	559,601
1925.....	389,327				119,304	22,497	38,613	(13)	28,161	597,902
1926.....	356,175				125,617	22,285	38,250	from	33,690	576,017
1927.....	404,217		Included in Column 1		138,784	13,390	48,823	1928	35,281	640,495
1928.....	538,043				159,808	20,505	4,012	to	36,950	759,318
1929.....	557,401				173,060	18,056	5,524	1934	45,835	799,876
1930.....	713,117				191,684	22,302	2,227		50,668	979,998
1931.....	730,955				160,980	21,482	4,313		61,861	979,592
1932.....	551,446				169,479	22,132	4,416		69,292	816,765
1933.....	446,841				138,830	15,247	4,623		60,521	666,062
1934.....	554,278	\$18,424	\$492,343	\$43,511	178,999	8,175	29,294	\$5,582	67,303	843,631
1935.....	416,412	16,077	354,950	45,385	184,458	6,819	30,653	6,806	67,918	713,066
1936.....	607,284	19,689	496,559	91,036	219,202	7,003	38,350	8,784	66,462	947,085
1937.....	551,979	19,704	469,574	62,701	227,877	10,711	49,643	12,752	65,824	918,786

Expenditures, 1921 to 1937

Supervision of State Highway Departments

for Calendar Year from Reports of State Authorities)

in Thousands of Dollars

CONTRIBUTIONS FROM OTHER THAN CURRENT

STATE SOURCES										BALANCE FROM PREVIOUS YEAR	
FUNDS TRANS. FROM LOCAL GOVERNMENT UNITS											
Total Federal Aid Road Receipts	Local Funds Transfers for State Highways	Work on Local Roads and Streets	Income from Sale of Bonds and Notes	Miscellaneous	Total from Other Than Current State Revenue Sources	Total Income During Year	Highway Funds	Reserves for Debt Service	Total Funds Available		
(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)		
\$77,457	\$33,163	Included	\$114,804	.....	\$225,424	\$405,974	\$74,026	Included	\$480,000		
79,741	94,758	ed	143,004	.....	317,503	504,713	85,897	in	590,610		
72,343	66,753	column	88,187	.....	227,283	467,541	138,834	column	606,375		
91,401	87,998	(10)	101,653	.....	281,052	555,397	156,827	(16)	712,224		
92,180	71,737	.....	141,402	.....	305,319	664,425	115,657	.....	780,082		
79,163	69,974	.....	103,846	.....	252,983	675,208	133,479	.....	806,687		
80,160	83,891	.....	90,979	.....	255,030	733,841	182,714	.....	916,555		
80,798	86,710	.....	121,484	.....	288,992	849,327	186,160	.....	1,035,487		
77,573	74,190	.....	161,229	.....	312,992	961,807	232,968	.....	1,194,775		
92,463	60,609	.....	222,288	.....	375,360	1,136,673	286,490	.....	1,423,163		
218,074	47,783	.....	130,614	.....	396,471	1,092,637	275,334	.....	1,367,971		
136,857	24,611	.....	104,650	.....	266,118	898,318	275,259	.....	1,173,577		
185,644	9,865	.....	27,975	.....	223,484	764,264	190,860	.....	965,124		
354,812	6,814	3,100	40,969	9,551	402,595	1,005,960	151,631	138,051	1,295,642		
219,381	16,904	3,462	55,883	8,370	292,168	902,010	154,777	149,158	1,205,945		
346,281	12,112	2,335	106,235	9,153	464,628	1,145,590	199,870	160,308	1,505,768		
262,762	18,224	3,928	65,009	9,835	345,995	1,195,625	214,553	169,632	1,579,810		

— in Thousands of Dollars

OTHER DISBURSEMENTS BY STATE HIGHWAY DEPARTMENTS

Retirement of State Highway Obligations	Transfers to Local Roads and Streets	Obligations Imposed by Statutes and Misc.	Non-Highway Purposes	Total Expenditures	Highway Funds	Reserves for Debt Service	YEAR
(11)	(12)	(13)	(14)	(15)	(16)	(17)	
\$6,651	\$6,452	Not	.....	\$397,484	\$82,516	.....	1921
6,205	34,670	segregated	.....	451,776	138,834	.....	1922
14,951	17,604	prior	.....	447,362	159,013	.....	1923
17,394	28,670	to 1928	.....	605,665	106,559	.....	1924
25,647	25,576	.....	.....	649,125	130,956	.....	1925
21,879	23,848	.....	.....	621,744	184,943	.....	1926
30,695	35,989	.....	.....	707,179	209,376	.....	1927
27,704	35,885	\$7,358	.....	830,265	205,222	.....	1928
42,385	45,791	22,433	.....	910,485	284,290	.....	1929
69,505	66,898	23,276	.....	1,139,677	283,487	.....	1930
57,278	32,969	21,170	.....	1,091,009	276,961	.....	1931
54,380	34,325	49,976	.....	955,446	218,130	.....	1932
56,309	42,797	16,838	.....	782,006	173,118	.....	1933
58,578	64,815	1,213	\$23,537	991,774	159,385	\$144,483	1934
55,756	56,938	1,228	21,367	848,355	198,040	159,550	1935
79,171	77,541	1,714	25,640	1,131,151	210,530	164,087	1936
75,664	130,477	8,742	33,037	1,166,706	231,081	182,023	1937

Members of Automobile Manufacturers Association

Passenger Car Manufacturers

Trade Name	Member or Manufacturer	Address
Buick	Buick Motor Division*	Flint, Mich.
Cadillac	Cadillac Motor Car Division*	Detroit, Mich.
Chevrolet	Chevrolet Motor Division*	Detroit, Mich.
Chrysler	Chrysler Sales Division†	Detroit, Mich.
De Soto	De Soto Division†	Detroit, Mich.
Dodge	Dodge Division†	Detroit, Mich.
Graham	Graham-Paige Motors Corporation	Detroit, Mich.
Hudson	Hudson Motor Car Company	Detroit, Mich.
Hupmobile	Hupp Motor Car Corporation	Detroit, Mich.
LaSalle	Cadillac Motor Car Division*	Detroit, Mich.
Nash	Nash-Kelvinator Corporation	Detroit, Mich.
Oldsmobile	Olds Motor Works Division*	Lansing, Mich.
Overland	Willys-Overland Motors, Inc.	Toledo, Ohio
Packard	Packard Motor Car Company	Detroit, Mich.
Plymouth	Plymouth Division†	Detroit, Mich.
Pontiac	Pontiac Motor Division*	Pontiac, Mich.
Studebaker	The Studebaker Corporation	South Bend, Ind.
Willys	Willys-Overland Motors, Inc.	Toledo, Ohio

† Chrysler Corporation.

* General Motors Corporation.

Taxicab Manufacturers

Checker	Checker Cab Mfg. Corporation	Kalamazoo, Mich.
G. M. C.	Yellow Truck and Coach Mfg. Co.	Pontiac, Mich.

Ambulance and Funeral Vehicle Manufacturers

Cadillac	Cadillac Motor Car Division*	Detroit, Mich.
Packard	Packard Motor Car Company	Detroit, Mich.
Studebaker	The Studebaker Corporation	South Bend, Ind.

Motor Fire Apparatus Manufacturers

Corbitt	The Corbitt Company	Henderson, N. C.
Mack	Mack Brothers Motor Car Company	Long Island City, N. Y.
Walter	Walter Motor Truck Company	Ridgewood, N. Y.
White	The White Motor Company	Cleveland, Ohio.

Members of Automobile Manufacturers Association

Motor Truck Manufacturers

Including Light Commercial Vehicle and Station-Wagon Manufacturers

Trade Name	Member or Manufacturer	Address
Autocar.....	The Autocar Company.....	Ardmore, Pa.
Chevrolet.....	Chevrolet Motor Division*.....	Detroit, Mich.
Corbitt.....	The Corbitt Company.....	Henderson, N. C.
Diamond T.....	Diamond T Motor Car Company.....	Chicago, Ill.
Dodge.....	Dodge Division†.....	Detroit, Mich.
Federal.....	Federal Motor Truck Company.....	Detroit, Mich.
G. M. C.....	Yellow Truck and Coach Mfg. Co.....	Pontiac, Mich.
Hudson.....	Hudson Motor Car Company.....	Detroit, Mich.
Indiana.....	The White Motor Company.....	Cleveland, Ohio
International.....	International Harvester Company.....	Chicago, Ill.
LaFrance-Republic...	Sterling Motor Truck Company.....	Milwaukee, Wis.
Mack.....	Mack Brothers Motor Car Company.....	Long Island City, N. Y.
Plymouth.....	Plymouth Division†.....	Detroit, Mich.
Reo.....	Reo Motor Car Company.....	Lansing, Mich.
Sterling.....	Sterling Motor Truck Company.....	Milwaukee, Wis.
Studebaker.....	The Studebaker Corporation.....	South Bend, Ind.
Walter.....	Walter Motor Truck Company.....	Ridgewood, N. Y.
White.....	The White Motor Company.....	Cleveland, Ohio
Willys-Overland.....	Willys-Overland Motors, Inc.....	Toledo, Ohio
	†Chrysler Corporation.	*General Motors Corporation.

Motor Bus Manufacturers

Diamond T.....	Diamond T Motor Car Company.....	Chicago, Ill.
Federal.....	Federal Motor Truck Company.....	Detroit, Mich.
G. M. C.....	Yellow Truck and Coach Mfg. Co.....	Pontiac, Mich.
I. H. C.....	International Harvester Company.....	Chicago, Ill.
Mack.....	Mack Brothers Motor Car Company.....	Long Island City, N. Y.
Reo.....	Reo Motor Car Company.....	Lansing, Mich.
Studebaker.....	The Studebaker Corporation.....	South Bend, Ind.
White.....	The White Motor Company.....	Cleveland, Ohio

Truck Trailer Manufacturers

Corbitt.....	The Corbitt Company.....	Henderson, N. C.
G. M. C.....	Yellow Truck and Coach Mfg. Co.....	Pontiac, Mich.
Mack.....	Mack Brothers Motor Car Company.....	Long Island City, N. Y.

Organization of Automobile Manufacturers Association

A list of Directors and Officers is given on page two

ADVERTISING COMMITTEE

BYRON C. FOY, *Chairman*.....DeSoto Motor Corporation†
H. T. DE HART.....Yellow Truck & Coach Mfg. Co.
J. W. DINEEN.....General Motors Corporation
H. W. HITCHCOCK.....Packard Motor Car Company
W. W. ROMAINE.....Plymouth Motor Corporation†
JAMES COPE, *Secretary*

EXPORT COMMITTEE

ROBERT C. GRAHAM, *Chairman*.....Graham-Paige Motors Corporation
EDGAR W. SMITH, *Vice Chairman*.....Overseas Operations, General Motors Corporation
B. C. BUDD.....Packard Motors Export Corporation
A. L. FRANK.....The Studebaker Export Corporation
ALLEN C. GERMANN.....Hudson Motor Car Company
GRAEME HOWARD.....Overseas Operations, General Motors Corporation
W. LEDYARD MITCHELL (C. B. Thomas*).....Export Division, Chrysler Corporation
L. P. THAYER.....International Harvester Export Company
GEORGE F. BAUER, *Secretary*
CHARLES R. WEAVER, Washington Office

*Alternate.

HIGHWAYS COMMITTEE

JAMES D. MOONEY, *Chairman*.....General Motors Corporation
A. EDWARD BARIT.....Hudson Motor Car Company
ROBERT F. BLACK.....The White Motor Company
JOSEPH E. FIELDS.....Chrysler Corporation
ROBERT C. GRAHAM.....Graham-Paige Motors Corporation

INSURANCE COMMITTEE

MILTON TIBBETTS, *Chairman*.....Packard Motor Car Company
A. C. ANDERSON.....General Motors Corporation
ANDREW HOOD.....Hudson Motor Car Company
R. P. FOHEY.....Chrysler Corporation
A. G. RUMPF.....The Studebaker Corporation
JAMES S. MARVIN, *Secretary*

LEGISLATIVE COMMITTEE

C. J. JOLLY, *Chairman*.....General Motors Corporation
W. H. BREARLEY.....The Autocar Company
DAVID C. FENNER.....Mack Bros. Motor Car Company
R. P. FOHEY.....Chrysler Corporation
MILTON TIBBETTS.....Packard Motor Car Company
HARRY MEIXELL, *Secretary*

MANUFACTURERS COMMITTEE

WILLIAM S. KNUDSEN, *Chairman*.....General Motors Corporation
G. T. CHRISTOPHER.....Packard Motor Car Company
E. F. FISHER.....Fisher Body Division, General Motors Corporation
K. T. KELLER.....Chrysler Corporation
R. E. STONE.....Graham-Paige Motors Corporation
IRA B. SWEGLES.....Hudson Motor Car Company
WILLIAM J. CRONIN, *Secretary*

MOTOR TRUCK COMMITTEE

ROBERT F. BLACK, *Chairman*.....The White Motor Company
I. B. BABCOCK.....Yellow Truck and Coach Manufacturing Company
T. W. MOSS.....Dodge Brothers Corporation†
DAVID C. FENNER.....Mack Bros. Motor Car Company
W. E. FISH.....Chevrolet Motor Division, General Motors Corporation
P. V. MOULDER.....International Harvester Company
ROBERT P. PAGE, JR.....The Autocar Company
R. W. RUDDON.....Federal Motor Truck Company
ARTHUR C. BUTLER, *Secretary*
† Chrysler Corporation

Organization of Automobile Manufacturers Association

PATENTS COMMITTEE

F. J. HAYNES, *Chairman*..... Detroit, Michigan
 J. KING HARNES..... Chrysler Corporation
 JAMES MCEVOY..... General Motors Corporation
 H. S. VANCE..... The Studebaker Corporation
 GEORGE C. ARVEDSON, *Department Manager*

PUBLIC RELATIONS COMMITTEE

PAUL W. GARRETT, *Chairman*..... General Motors Corporation
 PAUL G. HOFFMAN..... The Studebaker Corporation
 THOMAS J. ROSS..... Representing Chrysler Corporation
 WILLIAM H. JENKINS..... Packard Motor Car Company
 STANLEY P. SEWARD..... The White Motor Company
 JAMES COPE, *Secretary*

SAFETY TRAFFIC COMMITTEE

PAUL G. HOFFMAN, *Chairman*..... The Studebaker Corporation
 LEE J. EASTMAN..... Packard Motor Car Company
 DAVID C. FENNER..... Mack Bros. Motor Car Company
 R. P. FOHEY..... Chrysler Corporation
 PAUL W. GARRETT..... General Motors Corporation
 ROBERT P. PAGE, JR..... The Autocar Company
 NORMAN DAMON, *Secretary*

SALES MANAGERS COMMITTEE

R. H. GRANT, *Chairman*..... General Motors Corporation
 GEORGE H. PRATT..... Hudson Motor Car Company
 WILLIAM A. BLEES..... Nash-Kelvinator Corporation
 JOSEPH E. FIELDS..... Chrysler Corporation
 W. M. PACKER..... Packard Motor Car Company
 GEORGE D. KELLER..... The Studebaker Corporation
 J. W. DINEEN, *Secretary*

SHOW COMMITTEE

BYRON C. FOY, *Chairman*..... †DeSoto Motor Corporation
 R. H. GRANT..... General Motors Corporation
 PAUL G. HOFFMAN..... The Studebaker Corporation
 ALFRED REEVES, *Show Manager*

TAXATION COMMITTEE

A. E. BARIT, *Chairman*..... Hudson Motor Car Company
 WALTER P. CHRYSLER..... Chrysler Corporation
 ALVAN MACAULEY..... Packard Motor Car Company
 CHARLES W. NASH..... Nash-Kelvinator Corporation
 ROBERT P. PAGE, JR..... The Autocar Company
 ALFRED P. SLOAN, JR..... General Motors Corporation

TRAFFIC COMMITTEE

WALTER P. CHRYSLER..... Chrysler Corporation
 ROBERT C. GRAHAM..... Graham-Paige Motors Corporation
 FREDERICK C. HORNER..... General Motors Corporation
 JAMES S. MARVIN, *Department Manager*

REPRESENTATIVE ON HIGHWAY EDUCATION BOARD

ROBERT C. GRAHAM..... Graham-Paige Motors Corporation

REPRESENTATIVE ON NATIONAL INDUSTRIAL CONFERENCE BOARD

JAMES D. MOONEY..... General Motors Corporation

REPRESENTATIVES IN AMERICAN STANDARDS ASSOCIATION

CARL BREER..... Chrysler Corporation
 DAVID C. FENNER..... Mack Bros. Motor Car Company
 ROBERT P. PAGE, JR..... The Autocar Company

DETROIT OFFICE STATISTICAL DEPARTMENT WASHINGTON OFFICE
 KENNETH A. MOORE O. P. PEARSON, *Manager* PYKE JOHNSON

† Chrysler Corporation

Associations of the Automobile Industry

AUTOMOBILE MANUFACTURERS ASSOCIATION, INC.

GENERAL OFFICES: 366 Madison Avenue, New York, N. Y.; branches: General Motors Building, Detroit, Mich., and Transportation Building, Washington, D.C.

PRESIDENT: Alvan Macauley, Chairman, Packard Motor Car Company.

EXECUTIVE VICE PRES.: Pyke Johnson.

ADVISORY VICE PRES.: Alfred Reeves.

The Automobile Manufacturers Association, which is the organization through which the motor vehicle manufacturers of the United States cooperate on matters of common interest, was organized in 1913 under the name of the National Automobile Chamber of Commerce (name changed to present one in 1934). The Association is the successor of the National Association of Automobile Manufacturers, the Automobile Board of Trade and the Association of Licensed Automobile Manufacturers.

OBJECT: To represent the manufacturers of motor vehicles in all matters where cooperative activity is proper, efficient and economical and to serve as the clearing house for research and information on all subjects relating to highway transportation.

The scope of the Association's work is indicated by the following list of some of its current activities:

ACTIVITIES:

Administers the Cross-Licensing Agreements program under which members have pooled 1100 patents for use by other members without payment of royalty. This activity was designated in the 1930 American Trade Association Executives award competition as the most outstanding service performed by any trade association.

Through a comprehensive Employment Stabilization program, is seeking to reduce seasonal fluctuations in the industry's

operations, thus making possible more regular and continuous employment with greater annual earnings for workers.

Conducts researches on all subjects relating to the manufacture, sale and operation of motor vehicles including: markets; factory employment; legislation; safety; highway construction and finance; foreign trade; commercial highway transportation; taxation; rail, highway and ocean freight traffic; and patents.

Manages the National Automobile Show in New York.

Publishes "Automobile Facts and Figures," "Motor Truck Facts," "Automobile Facts," and other special literature dealing with various phases of highway transportation.

Is conducting a comprehensive nationwide program for the promotion of greater traffic safety.

Maintains the most complete automotive library in existence for use of members.

Studies rail and steamship transportation rates and service and seeks to develop maximum efficiency and economy in the movement of automotive freight.

Aids in promoting sound and equitable legislative principles relating to highway transportation.

Encourages the development of highway facilities throughout the world on a sound economic basis.

Upon invitation, sends representatives to foreign countries to aid in the development of highway transportation.

Maintains regional information offices in Detroit and Washington.

Members of the Association classified according to numbers of makes of vehicles produced are grouped as follows: passenger cars, 17; motor trucks, 19; taxicabs, 2; buses, 8; special vehicles such as fire apparatus, ambulances and funeral cars, 7.

Continued on next page

Associations of the Automobile Industry (Continued)

American Automobile Association

NATIONAL HEADQUARTERS: Pennsylvania Avenue at 17th Street, N. W., Washington, D. C.

PRESIDENT: Thos. P. Henry, 41 Burroughs Avenue, Detroit, Mich.

GENERAL MANAGER: Russell E. Singer.

The world's largest motor federation—composed of 750 motor clubs and branches and 925,000 members. It is a national civic body, operating without personal profit and officered by responsible business and professional men.

OBJECTS: Its objects, briefly stated, are:

To unite in one body all the automobile clubs and individual motorists in the country.

To secure reasonable and just legislation and to aid in proper enforcement of automobile laws and ordinances.

To secure the construction and maintenance of a system of highways adequate to the needs of motor transport.

To encourage travel by automobile, bus, steamship and air, and to secure, prepare, and disseminate information relative thereto.

To support sportsmanlike contests and other movements that will advance motoring interests.

To develop service to motorists through clubs.

To promote highway safety by motorists and pedestrians, and to develop it among children through safety lessons and school boy patrols.

To facilitate touring by Americans in foreign countries, furnish customs papers, driving licenses and necessary documents.

American Finance Conference

OFFICES: 1730-34 Burnham Bldg., 160 North LaSalle St., Chicago, Ill.

PRESIDENT: Owen L. Coon, 184 W. Lake St., Chicago, Ill.

EXECUTIVE VICE PRESIDENT: Fred V. Chew, 160 North LaSalle St., Chicago, Ill.

A national trade association representing 380 automobile finance companies operating 921 offices in 46 states. Purpose is to promote the betterment of the business of its members by coordinating its forces for educational, legislative, defensive or other purposes, by aiding and cooperating with any movement beneficial to the automobile financing business.

American Motorists Association

ADMINISTRATIVE OFFICES: 1643 Connecticut Avenue, N. W., Washington, D. C.

PRESIDENT: J. Borton Weeks, 260 North Broad St., Philadelphia, Pa.

GENERAL MANAGER: Thomas J. Keefe, 1643 Connecticut Avenue, N. W., Washington, D. C.

A non-profit service organization. Membership nearly 300,000.

OBJECTS are to aid in the organization and maintenance of automobile associations and clubs to promote the welfare of motorists; to compile and distribute information on touring, roads and laws; to promote good roads, safety on the highway, in short, any and all activities in the interest of motorists.

American Trucking Associations, Inc.

GENERAL OFFICES: 1013-16th St., N. W., Washington, D. C.

PRESIDENT: Ted V. Rodgers.

MANAGER: John V. Lawrence.

The American Trucking Associations, Inc., organized in Washington in September, 1933, is composed of 50 regional, state and local motor truck associations, representing throughout the country, ownership, by all types of operators, in excess of 500,000 trucks. It is a federation of associations, operating without profit and officered by truck operators for the purpose of promoting the best interests of the Trucking Industry.

It is the recognized national spokesman for the Trucking Industry and contacts regularly all Federal departments in which arise matters pertaining to trucking and other forms of transportation.

Automotive Electric Association

GENERAL OFFICES: 800 Michigan Theatre Building, Detroit, Mich.

PRESIDENT: E. V. Oehler, Briggs & Stratton Corporation, Milwaukee, Wisconsin.

EXECUTIVE SECRETARY: A. R. Sandt, 800 Michigan Theatre Building, Detroit, Mich.

An international association of manufacturers, distributors and authorized service stations organized to safeguard and promote the welfare of specialized service in the automotive industry.

Automotive Parts and Equipment Manufacturers, Incorporated

GENERAL OFFICES: 800 Michigan Theatre Building, Detroit, Mich.

PRESIDENT: C. C. Carlton, Motor Wheel Corporation, Lansing, Mich.

GENERAL MANAGER: Clarence O. Skinner, 800 Michigan Theatre Building, Detroit, Mich.

A national association of manufacturers of automotive parts and equipment. Has six divisions: Original Equipment, Replacement Parts, Accessories, Shop Equipment, Service Tools, and Electrical Products.

Maintains statistical and legal departments and engages in all activities for the promotion and protection of the best interests of industry, through cooperation among the members and otherwise.

Automotive Safety Foundation, Inc.

HEADQUARTERS: 366 Madison Ave., New York, N. Y.

PRESIDENT: Paul G. Hoffman, President, The Studebaker Corporation.

VICE PRESIDENTS: C. C. Carlton, President, Automotive Parts & Equipment Manufacturers; F. B. Davis, Jr., President, U. S. Rubber Co., A. O. Dietz, President, Commercial Investment Trust.

SECRETARY-TREASURER: Byron C. Foy, President, De Soto Motor Corporation.

ASSISTANT TREASURER: Alfred Reeves, Advisory Vice-President, Automobile Manufacturers Association.

DIRECTOR: Norman Damon.

PURPOSE: To encourage safe and efficient use of streets and highways; stimulate research into causes of highway accidents and disseminate information on safe use of motor vehicles, effective methods of preventing accidents, means of relieving congestion and facilitating traffic with safety.

(Association list continued on following page)

Associations of the Automobile Industry (Continued)

Automotive Trade Association Managers

GENERAL OFFICES: Inquirer Building, 400 N. Broad St., Philadelphia, Pa.
PRESIDENT: Herbert Buckman.
VICE-PRESIDENT: H. H. Stuart.
SECRETARY-TREASURER: W. P. Berrien.

A National Association composed of managers of state and local automobile dealer associations, and of automobile shows sponsored by these local organizations.

Motor and Equipment Manufacturers Association

EXECUTIVE HEADQUARTERS: Fisk Building, 250 West 57th Street, New York.
PRESIDENT: D. S. Brishin, Vice Pres., Columbus-McKinnon Chain Corp., Tonawanda, N. Y.
GENERAL MANAGER: Albert H. Eichholz, Fisk Bldg., New York, N. Y.

National organization, functioning since 1904, representing interests of manufacturers of original equipment, replacement parts, accessories, shop equipment, service tools, and chemicals for the automobile, automotive, aircraft and marine fields. Maintains credit, export, sales development, trade and national shows, legislation and group activities departments.

Motor and Equipment Wholesalers Association

EXECUTIVE HEADQUARTERS: Jackson-Franklin Bldg., 309 W. Jackson Blvd., Chicago, Ill.
PRESIDENT: R. P. Greene, Littlefield-Greene Corp., Boston, Mass.
GENERAL MANAGER: B. W. Ruark, 309 W. Jackson Blvd., Chicago, Ill.

National organization representing interests of automotive jobbers, distributing merchandise generally as follows: Parts, equipment, accessories, and supplies in the automotive, aircraft and marine line. Maintains an information bureau for members and disseminates information pertinent to operations of the automotive jobbing industry.

Conducts Collection Service, Adjustment Bureau, Merchandise Exchange Department, and Interchange of Members' Experiences Department.

Through regional association groups correlates jobber opinion on matters of trade interest and conducts a continuous national information distribution service through means of regional key line distribution charts.

Motor Vehicle Industries Conference

OFFICES: 366 Madison Avenue, New York, N. Y.
CHAIRMAN: David C. Fenner.
SECRETARY: Leon F. Banigan.

Organized in 1939 and composed of National associations identified with the motor vehicle industry. The Conference functions as a means coordinating and integrating thought and action of participants relative to legislative matters of interest and concern to their members.

National Automobile Dealers Association

GENERAL OFFICES: 154 Bagley Ave., Detroit, Mich.
PRESIDENT: Stanley H. Horner, Washington, D. C.
OPERATING MANAGER, W. E. Blanchard, Detroit, Mich.
TREASURER: D. E. Castles, St. Louis, Mo.
SECRETARY: J. Schiott, Bridgeport, Conn.

OBJECT is promotion of automobile dealer business, constructive publicity on dealer aims, maintenance of high merchandising standards, research on selling opportunities of the business, study of markets and dissemination of facts concerning the same, opposition to harmful legislation, support of good legislation, promotion of good roads and furthering highway safety.

National Association of Sales Finance Companies

GENERAL OFFICES: 203 No. Wabash Ave., Chicago, Ill.
PRESIDENT: A. D. Weller, Rochester, N. Y.
SECRETARY: Milan V. Ayres.

A national organization representing automotive financing and insuring interests along the following lines: Advocates sound credit terms. Defends installment selling. Opposes vicious state and national legislation and promotes desirable legislation. Distributes valuable data in the shape of educational, legal, statistical, and trade bulletins and briefs. Secures material reduction in cost of essential services used by members. Arranges for interchange of service between members in collection and credit work and location of seized and embezzled motor vehicles.

National Association of Motor Bus Operators

PRESIDENT: A. M. Hill, 1100 Kanawha Valley Bldg., Charleston, W. Va.
VICE-PRESIDENT: E. W. Wakelee, 80 Park Place, Newark, N. J.
SECRETARY-MANAGER: A. W. Koehler, 831 Tower Building, Washington, D. C.

All activities that promote the welfare and prosperity of motor bus operators and of the bus industry as a whole are within the scope of the Association's program. These include national, state and municipal legislation, important litigation, the collection and dissemination of bus operating cost and tax data, and the distribution to the public of facts on the economy and convenience of bus travel.

National Association of Taxicab Owners

HEADQUARTERS: 500 North Dearborn Street, Chicago, Ill.
PRESIDENT: Harry C. Davis, Washington, D. C.
SECRETARY: J. G. Williams, Chicago, Ill.
PURPOSES: To afford our members a medium of cooperation.

To collect and disseminate information that promotes the economical conduct of the taxicab business.

Associations of the Automobile Industry (Continued)

National Council of Private Motor Truck Owners, Inc.

HEADQUARTERS: 366 Madison Avenue, New York, N. Y.

PRESIDENT: Wm. H. Ott, Kraft-Phenix Cheese Corporation, Chicago, Ill.

VICE-PRESIDENTS: Fred Brenckman, The National Grange, Washington, D. C.; James C. Bennett, California Oil & Gas Assn., San Francisco, California.

TREASURER: Robert C. Hibben, Intl. Assn. of Ice Cream Manufacturers, Washington, D. C.

A national organization incorporated as a non-profit association under the laws of the State of New York, devoted to the safe and economic use of the 3,600,000 motor trucks owned and operated by agriculture and industry. Its membership comprises firms owning one or more trucks, as well as national and state associations that represent them.

National Highway Users Conference

HEADQUARTERS: National Press Building, Washington, D. C.

CHAIRMAN: Alfred P. Sloan, Jr., Chairman of the Board, General Motors Corporation, New York, N. Y.

VICE-CHAIRMAN: Thomas P. Henry, President, American Automobile Association.

SECRETARY-TREASURER: L. J. Taber, Master, The National Grange.

DIRECTOR: Chester H. Gray, National Press Bldg., Washington, D. C.

Encourages the development of equitable policies of taxation for the use of public highways and endeavors to prevent imposition of unjust burdens upon highway traffic.

Serves as a clearing house for information on proposed national, state and municipal legislation affecting motor vehicle taxation and regulation and highway construction.

National Standard Parts Association

GENERAL OFFICES: 1420 United Artists Building, Detroit, Mich.

PRESIDENT: L. G. Matthews, Sealed Power Corporation, Muskegon, Mich.

EXECUTIVE VICE-PRESIDENT: E. P. Chalfant, 1420 United Artists Building, Detroit, Mich.

MEMBERSHIP comprises corporations, firms or persons engaged in manufacturing and/or jobbing standard brands of automotive service parts, materials, shop tools and equipment.

OBJECTS: The objects of the Association are to promote an enlarged acquaintance and a more friendly intercourse among its members and in all reasonable, lawful and proper ways to promote the best interests of the automotive service parts trade.

National Wheel and Rim Association

606 Stephenson Building, Detroit, Mich.

PRESIDENT: H. M. Young, Borbein Young & Co., St. Louis, Mo.

SECRETARY AND GENERAL MANAGER: E. S. Ingham, Stephenson Bldg., Detroit, Mich.

Active membership consists of firms engaged in the wholesale distribution of wheels and allied products; associate membership, the manufacturers of wheels for original equipment who sell replacement materials through distributors.

OBJECTS: To promote the general welfare of the industry; exchange information among members; publish catalogs and sales promotion material; and encourage close friendly relations among the members by means of meetings at regular intervals and bulletin service between meetings.

The Rubber Manufacturers Association, Incorporated

GENERAL OFFICES: 444 Madison Avenue, New York City.

CHAIRMAN OF THE BOARD: A. F. Townsend, Raybestos-Manhattan, Inc.

PRESIDENT AND GENERAL MANAGER: A. L. Viles.

SECRETARY: R. H. Goebel.

A national trade organization embracing rubber manufacturers of the United States.

Its membership consists of 150 firms, and its object is to promote in all lawful ways the commercial interests of its members, and secure the advantages to be obtained through mutual co-operation, also to stimulate social intercourse among those connected with the rubber industry and commerce and in general for the promotion of the welfare of the rubber industry.

Society of Automotive Engineers, Inc.

GENERAL OFFICES: 29 W. 39th St., New York City.

PRESIDENT: W. J. Davidson, Detroit, Mich.

SEC'Y AND GEN'L MANAGER: John A. C. Warner.

OBJECT OF the Society is to promote the arts, sciences, standards, and engineering practices connected with the design, construction and utilization of automotive apparatus, all forms of self-propelled or mechanically propelled mediums for the transportation of passengers or freight, and internal combustion prime-movers.

Publications are: *Transactions* (annual); *S. A. E. Membership Roster* (annual); *The S. A. E. Journal* (monthly); and *S. A. E. Handbook, Standards and Recommended Practices* (published annually).

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